

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

**(Semester III to Semester IV)**

**Department of Printing and Packaging  
Technology  
(Batch 2018-19 onwards)**



**School of Engineering & Technology**

**CENTRAL UNIVERSITY OF HARYANA  
MAHENDERGARH-123031  
HARYANA**



**Department of Printing and Packaging Technology**  
**Central University of Haryana, Mahendergarh**  
**B.Tech. 2<sup>nd</sup>YEAR (SEMESTER – III)**  
**Choice Based Credit System Scheme of Studies & Examinations w.e.f. 2019-20**

Sl. No.	Course Code	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credits	Duration of Exam
			L	T	P		Theory	Practical			
1	BT PPT 301A	Basics of Printing Technology	3	1	0	30	70	0	100	4	3
2	BT PPT 302A	Basics of Packaging Technology	3	1	0	30	70	0	100	4	3
3	BT PPT 303A	Printing Process Lab.	0	0	2	30	0	70	100	1	3
4	BT PPT 304A	Electronic composition	3	1	0	30	70	0	100	4	3
5	BT PPT 305A	Electronic Composition Lab	0	0	2	30	0	70	100	1	3
6	BT PPT 306A	Printing & Packaging Materials Science-I	3	1	0	30	70	0	100	4	3
7		GEC	3	1	0	30	70	0	100	4	3
8	BT AUD 308A	Environment Studies	3	0	0	30	70	0	100	0	3
<b>Total</b>			<b>18</b>	<b>05</b>	<b>04</b>	<b>240</b>	<b>420</b>	<b>140</b>	<b>800</b>	<b>22</b>	<b>24</b>

**L= Lecture, T = Tutorial, P = Practical, AUD = Audit Course, & C = Credits, GEC = Generic Elective Course**

**NOTE:** Examinees will be allowed to use only non-programmable scientific calculators in the examination. Other electronic gadgets and sharing of materials will not be permitted during the examinations.

- GEC to be taken from other department.

List of GEC (General Elective Course) “For Students of Other Departments”

1. Basics of Printing and Packaging Technology- BT PPT 307A



**Department of Printing and Packaging Technology**  
**Central University of Haryana, Mahendergarh**  
**B.Tech. 2<sup>nd</sup>YEAR (SEMESTER – IV)**  
**Choice Based Credit System Scheme of Studies & Examinations w.e.f. 2019-20**

Sl. No.	Course Code	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credits	Duration of Exam
			L	T	P		Theory	Practical			
1	BT PPT401A	Offset Technology	3	0	0	30	70		100	3	3
2	BT PPT402A	Offset Technology Lab	0	0	2	30	0	70	100	1	3
3	BT PPT403A	Packaging Process-I	3	1	0	30	70	0	100	4	3
4	BT PPT404A	Packaging Process-I Lab	0	0	2	30	0	70	100	1	3
5	BT PPT405A	Essentials of Management	3	0	0	30	70		100	3	3
6	BT PPT 406A	Printing & Packaging Materials Science-II	3	1	0	30	70	0	100	4	3
7	BT PPT 407A	Costing, Estimating and ERP	3	0	0	30	70	0	100	3	3
8	BT PPT 408A	Printing & Packaging Materials Testing Lab	0	0	2	30	0	70	100	1	3
9		GEC	3	1	0	30	70	0	100	4	3
10	BT AUD 410A	Indian Constitution	3	0	0	30	70	0	100	0	3
<b>Total</b>			<b>21</b>	<b>03</b>	<b>06</b>	<b>300</b>	<b>490</b>	<b>210</b>	<b>1000</b>	<b>24</b>	<b>30</b>

**L= Lecture, T = Tutorial, P = Practical, AUD = Audit Course, & C = Credits, GEC = Generic Elective Course**

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- GEC to be taken from other department.

List of GEC (General Elective Course) “For Students of Other Departments”

1. Printing and Packaging Materials- BT PPT 409A



**Department of Printing and Packaging Technology**  
**Central University of Haryana, Mahendergarh**  
**B.Tech. 3<sup>rd</sup> YEAR (SEMESTER – V)**  
**Choice Based Credit System Scheme of Studies & Examinations w.e.f. 2020-21**

Sl. No.	Course Code	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credits	Duration of Exam
			L	T	P		Theory	Practical			
1	BT PPT 501A	Printing Image Generation	3	0	0	30	70		100	3	3
2	BT PPT 502A	Printing Image Generation Lab.	0	0	2	30		70	100	1	3
3	BT PPT 503A	Packaging Process -II	3	1	0	30	70		100	4	3
4	BT PPT 504A	Packaging Process –II Lab	0	0	2	30		70	100	1	3
5	BT PPT 505A	Flexo, Gravure & Screen Printing	3	0	0	30	70		100	3	3
6	BT PPT 506A	Flexo, Gravure & Screen Printing Lab	0	0	2	30		70	100	1	3
7	.....	Program Elective - 1	3	0	0	30	70		100	3	3
8	-----	Open Elective-1	3	0	0	30	70		100	3	3
9	BT ECO 507A	Economics for Engineers	3	0	0	30	70		100	3	3
<b>Total</b>			<b>18</b>	<b>01</b>	<b>06</b>	<b>270</b>	<b>420</b>	<b>210</b>	<b>900</b>	<b>22</b>	<b>27</b>



Note: Examinees will be allowed to use only non-programmable scientific calculators in the examination. Other electronic gadgets and sharing of materials will not be permitted during the examinations.

**Department of Printing and Packaging Technology**  
**Central University of Haryana, Mahendergarh**  
**B.Tech. 3<sup>rd</sup> YEAR (SEMESTER – VI)**  
**Choice Based Credit System Scheme of Studies & Examinations w.e.f. 2020-21**

Sl. No.	Course Code	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credits	Duration of Exam
			L	T	P		Theory	Practical			
1	BT PPT601A	Digital & Security Printing	3	1	0	30	70		100	4	3
2	BT PPT 602A	Digital & Security Printing Lab	0	0	2	30	0	70	100	1	3
3	BT PPT 603A	Print Finishing and Converting	3	1	0	30	70	0	100	4	3
4	BT PPT 604A	Print Finishing and Converting Lab	0	0	2	30	0	70	100	1	3
5	BT PPT 605A	Speciality Printing, Marketing and Legislations in Packaging	2	0	0	30	70	0	100	2	3
6	BT PPT606A	Package Design & Testing Lab	0	0	2	30	0	70	100	1	3
7	.....	Program Elective - 2	3	0	0	30	70	0	100	3	3
8	.....	Program Elective - 3	3	0	0	30	70	0	100	3	3
9	.....	Open Elective -2	3	0	0	30	70	0	100	3	3
10	BT PP 607 A	Positive Psychology	3	0	0	30	70	0	100	3	3
	BT PRJPPT 703A	Summer Internship	During Summer Vacations / Non-credit ( To be evaluated in VII Semester)								
<b>Total</b>			<b>20</b>	<b>02</b>	<b>06</b>	<b>300</b>	<b>490</b>	<b>210</b>	<b>1000</b>	<b>25</b>	<b>30</b>

Note: Examinees will be allowed to use only non-programmable scientific calculators in the examination. Other electronic gadgets and sharing of materials will not be permitted during the examinations.



**Department of Printing and Packaging Technology**  
**Central University of Haryana, Mahendergarh**  
**B.Tech. 4<sup>th</sup> YEAR (SEMESTER – VII)**  
**Choice Based Credit System Scheme of Studies & Examinations w.e.f. 2021-22**

Sl. No.	Course Code	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credits	Duration of Exam
			L	T	P		Theory	Practical			
1	.....	Program Elective -4	3	0	0	30	70		100	3	3
2	.....	Program Elective -5	3	0	0	30	70		100	3	3
3	.....	Open Elective -3	3	0	0	30	70		100	3	3
4	.....	Open Elective -4	3	0	0	30	70		100	3	3
5	BT PRJPPT 701A	Project Stage-I	0	0	6	30		70	100	3	3
6	BT PRJPPT 702A	Project Management and Entrepreneurship	3	0	0	30	70		100	3	3
7	BT PRJPPT 703A	Evaluation of Summer Internship	0	0	2	100			100	0	
<b>Total</b>			<b>15</b>	<b>00</b>	<b>08</b>	<b>280</b>	<b>350</b>	<b>70</b>	<b>700</b>	<b>18</b>	<b>18</b>

Note: Examinees will be allowed to use only non-programmable scientific calculators in the examination. Other electronic gadgets and sharing of materials will not be permitted during the examinations.



**Department of Printing and Packaging Technology**  
**Central University of Haryana, Mahendergarh**  
**B.Tech. 4<sup>th</sup> YEAR (SEMESTER – VIII)**  
**Choice Based Credit System Scheme of Studies & Examinations w.e.f. 2021-22**

Sl. No	Course Code	Course Title	Teaching Schedule			Marks of Class work	Examination Marks		Total	Credits	Duration of Exam
			L	T	P		Theory	Practical			
1		Program Elective -6	3	0	0	30	70		100	3	3
2		Open Elective -5	3	0	0	30	70		100	3	3
3		Open Elective -6	3	0	0	30	70		100	3	3
4	BT AUDPPT 801A	General Proficiency & Ethics	0	0	0			100	100	0	
4	BT PRJPPT 802A	Project Stage-II	0	0	16	30		70	100	8	3
<b>Total</b>			<b>09</b>	<b>00</b>	<b>16</b>	<b>120</b>	<b>210</b>	<b>170</b>	<b>500</b>	<b>17</b>	<b>12</b>

Note: Examinees will be allowed to use only non-programmable scientific calculators in the examination. Other electronic gadgets and sharing of materials will not be permitted during the examinations.

**TOTAL CREDITS = 165 (including first year)**

Semester	1	2	3	4	5	6	7	8	Total
Credit	17.5	20.5	22	23	22	25	18	17	165



## PROFESSIONAL ELECTIVE COURSES

Sr. No.	Course Code	Course Title	Hrs.	Credits		Semester
			/Week			
			L: T: P			
1.	BT PPT 508A	Flexible Packaging	3:0:0	3	PE1	5
2.	BT PPT 509A	Design & Art Work	3:0:0	3		
3.	BT PPT 510A	Human Resource Management	3:0:0	3		
4.	BT PPT 608A	Color Essentials	3:0:0	3	PE2	6
5.	BT PPT 609A	Packaging Economics & Value Engineering	3:0:0	3		
6.	BT PPT 610A	Publishing Technology	3:0:0	3		
7.	BT PPT 611A	Green Printing	3:0:0	3	PE3	
8.	BT PPT 612A	Marketing Management	3:0:0	3		
9.	BT PPT 613A	Smart Packaging	3:0:0	3		
10.	BT PPT 704A	Rigid Packaging	3:0:0	3	PE4	7
11.	BT PPT 705A	3 D Printing	3:0:0	3	PE5	
12.	BT PPT 706A	Packaging Management	3:0:0	3		
13.	BT PPT 707 A	News Paper Technology	3:0:0	3		
14.	BT PPT 803A	Electronic Color Correction	3:0:0	3	PE6	8
15.	BT PPT 804A	E-Publishing	3:0:0	3		





## OPEN ELECTIVE COURSES

Sl. No	Code No.		Semester	Subject	Hrs/ Week. L: T: P	Credits
1	BT PPT 511A	OE1	5	Graphic Design	3:0:0	3
2	BT PPT 512A			Packaging Techniques & Processes	3:0:0	3
3	BT PPT 614A	OE2	6	Offset Technology	3:0:0	3
4	BT PPT 615A			3 D Printing	3:0:0	3
5	BT PPT 712A	OE3	7	Newspaper Technology	3:0:0	3
6	BT PPT 713A			Printing Process	3:0:0	3
7	BT PPT 714A	OE4		Publishing Science	3:0:0	3
8	BT PPT 715A			Packaging Design & Development	3:0:0	3
9	BT PPT 805A	OE5	8	Green Printing	3:0:0	3
10	BT PPT 806A			Smart Packaging	3:0:0	3
11	BT PPT 807A	OE6		Printing and Packaging Materials	3:0:0	3
12	BT PPT 808A			Press Management	3:0:0	3

For other Departments all Programme core, Programme Elective and subjects listed with PPT code in above Open Elective courses are offered as Open Elective.

**NOTE:** - A Student is expected to earn about 20% credits through MOOCs (Massive Open Online Courses) as per his/her pace. Based upon the major area in which he/ she so earns the credits, he/ she shall be awarded Hons. in that stream, e.g. B.Tech. in Printing and Packaging Technology with Hons. in Internet Technology.