

BANGLADESH TECHNICAL EDUCATION BOARD

Agargaon, Sher-E-Bangla Nagar Dhaka-1207.

04-YEAR DIPLOMA IN ENGINEERING CURRICULUM COURSE STRUCTURE & SYLLABUS (PROBIDHAN-2022)

GRAPHIC DESIGN TECHNOLOGY

TECHNOLOGY CODE: 96

5TH SEMESTER

(Effective from 2022-2023 Academic Sessions)

DIPLOMA IN ENGINEERING CURRICULUM COURSE STRUCTURE

(PROBIDHAN-2022)

TECHNOLOGY NAME: GRAPHIC DESIGN TECHNOLOGY (96)

(5th SEMESTER)

	Subject		Period Per Week			Marks Distribution						
Sl. No.		Subject		reriou rer week		Theory Assessment		Practical Assessment		Grand		
	Code	Name	Theory	Practical		Continuous	Final	Total	Continuous	Final	Total	Total
1	25852	Industrial Management	2	-	2	40	60	100	-	-	-	100
2	29555	Digital Design & Printing	2	3	3	40	60	100	25	25	50	150
3	29651	Advertising Design	2	3	3	40	60	100	25	25	50	150
4	29652	Fabric Design	2	3	3	40	60	100	25	25	50	150
5	29653	Design & Editing	2	6	4	40	60	100	50	50	100	200
6	29654	Packaging Design-I	2	3	3	40	60	100	25	25	50	150
7	29655	Graphic Design-III	2	3	3	40	60	100	25	25	50	150
	Total 1			21	21	280	420	700	175	175	350	1,050

Subject Code	Subject Name	Period pe	Credit	
25852	INDUSTRIAL MANAGEMENT	Т	Р	С
23032	INDOSTRIAL WARAGEMENT	2	0	2

Rationale	As mid-level manager, engineering diploma graduates are responsible for proper and most efficient interaction of 6 M'S: man, machine, material, money, method (SOP or process) and market with a focus that will depend on their position in the organization (production, planning, quality, maintenance, design, etc.). They first need to understand the type of management and organization they work in. As they work directly or indirectly with manufacturing, therefore they need to have knowledge, skills and attitudes on production, planning, productivity improvement, new systems such as lean manufacturing and understand how production integrates in the overall supply chain management. They deal with people either as a supervisor, assistant manager or by leading transversal projects, they should know their role concerning human resources management and development. In their daily work, they must use a suitable leadership style, assign and monitor work, solve problems, support motivation to change of their teams when they implement new methods and systems.
Learning Outcome (Theoretical)	After undergoing the subject, students will be able to: State the roles and responsibilities of a mid-level manager within the organization Differentiate various management systems and organizations Describe the manufacturing process ensuring productivity, quality, cost and safety State the types of production planning Explain productivity improvement factors while controlling cost Describe new trends of production management systems Identify mid-level manager roles in the human resources management and development Select the suitable leadership style depending on the situations and people Identify the steps of work assignment based on goals to achieve while supporting changes Describe the steps of problem solving and decision making

DETAIL DESCRIPTION (THEORY:

Unit	Topics with Contents	Class (1 Period)	Final Marks
1.	FUNDAMENTALS OF ORGANIZATION		
	1.1 Explain the purpose of an organization.		
	1.2 Define management organization.		
	1.3 Describe various types and features of organization structures.	2	4
	1.4 Explain authority, responsibility, duties and delegation of		
	authority.		
	1.5 Define span of supervision.		
2.	FUNDAMENTALS OF MANAGEMENT		
	2.1 Explain the functions of management.		
	2.2 Relate administration, organization and management.		
	2.3 Describe different types of management and in which context	2	4
	they apply.		
	2.4 Define the specificities of industrial management.		
3.	PRODUCTION MANAGEMENT		
	3.1 Define production management .		
	3.2 State functions of production management.		
	3.3 Describe "5p".		
	3.4 Mention applications of "5p".		
	3.5 Define cost control-methods.	5	8
	3.6 Define inventory & inventory control.		
	3.7 Describe the fundamentals of maintenance management.		
	3.8 Explain the importance of quality system.		
	3.9 Explain the components of quality system		
4	PRODUCTIVITY IMPROVEMENT		
	4.1 Define Productivity.		
	4.2 List factors affecting industrial productivity.	2	6
	4.3 Describe productivity improvement techniques.	3	6
	4.4 Describe the lean manufacturing approach.		
	4.5 Explain the concept of Just in Time.		
5	PLANNING		
	5.1 Discuss importance of planning.		
	5.2 Explain the steps in planning.		_
	5.3 Explain the factors affecting on planning.	4	7
	5.4 State different types of production planning and control.		
	5.5 Describe the way to manage personal time.		
6	SUPPLY CHAIN MANAGEMENT	3	4

Unit	Topics with Contents	Class (1 Period)	Final Marks
	6.1 Define supply chain management.6.2 Explain the components of supply chain management.6.3 Explain production integration into supply chain management.		
7.	HUMAN RESOURCES MANAGEMENT AND DEVELOPMENT (HRM-HRD)		
	 7.1 Describe the main functions in human resources management (HRM). 7.2 Describe the main functions in human resources development (HRD). 7.3 Explain the role of manager in the recruitment process. 7.4 Explain the role of manager in the training process. 7.5 Explain the role of manager in the performance management system. 7.6 Mention the components of compensation and benefits system. 	3	6
8.	LEADING A TEAM		
	 8.1 Define leadership. 8.2 Identify personality traits impacting leadership style. 8.3 Discuss the types of leadership. 8.4 Define motivation and motivational cycle. 8.5 State the importance of motivation. 8.6 List motivation drivers based on Maslow, Herzberg adapted to various generations 8.7 State concepts of Theory-X, Theory-Y and Theory-Z 	3	6
9.	WORK ASSIGNMENT		
	 9.1 List different types of leadership styles. 9.2 Describe the leadership style adapted to the work assignment and delegation. 9.3 State SMART goal. 9.4 Set SMART goals to support work assignment. 9.5 Identify ways to reduce resistance to change during work assignment. 	4	8
10.	PROBLEM SOLVING AND DECISION MAKING		
	 10.1 Mention the steps of problem solving. 10.2 Explain tools used to analyze and solve problem addressing the 5M components. 10.3 Define decision making. 10.4 Discuss different types of decision-making process. 10.5 Describe the steps in decision making. 	3	7
	Total	32	60

Necessary Resources (Tools, equipment and Machinery):

SI	Item Name	Quantity (piece/s)	
01	Case studies, examples, exercises related documents	One for each student	
02	Project templates	One for each student	

Recommended Books:

SI	Book Name	Writer Name	Publisher Name & Edition
01.	Principles of Management	Dr. Md. Mainul Islam and Dr. Abdul Awal Dhan,	Bangladesh Open University.
02.	Personnel Management and Industrial Relation.	Mohammad Mohiuddin	NIDS Publication Co, Dhaka.
03.	Production Operations Management: The Handbook	Ronald P Bizzle Jr	Independently published (January 31, 2023)
04.	How To Implement Lean Manufacturing, Second Edition 2nd Edition	Lonni e WI son	McGrawHII; 2nd edition (March 22, 2015)
05.	The Toyot a Way, Second Edition: 14 Management Principles from the Vorld's Greatest Manufacturer Hardcover	Jeffrey K Liker	McGrawHII; 2nd edition (December 1, 2020)
06.	Faster, Better, Cheaper in the H story of Manufacturing 1st Edition	Christ oph Roser	Productivity Pr; 1st edition (August 5, 2016)
07.	Supply Chain Management, Inventory Control, Human Resource Management, and Customer service (Louis Bevoc Series of Educational and Informational Books)	Loui s Bevoc	Or eat eSpace I ndependent Publ i shi ng Pl at f or m (Sept ember 4, 2016)
08.	Bull et proof ProblemSol ving: The One Skill That Changes Everything	Charles Conn	Wiley; 1st edition (March 6, 2019)
09.	The Mini at ure Gui deto Critical Thinking Concepts and Tools	Richard Paul and Linda Elder	The Foundation for Oritical Thinking: Eighth edition (September 20, 2019)
10.	Leadership and the One Minute Manager: Increasing Effectiveness Through Situational Leadership	Ken Blanchard, Patricia Zigarmi, Drea Zigarmi	William Morrow; Updated edition (October 15, 2013)
11.	Effective Delegation of Authority: A (Really) Short Book for New Managers	Hassan Osman	Independently published (May 7, 2019)
12.	The Human Element: Overcoming the Resistance That Awaits	Loran Nordgren, David Schonthal	Wiley; 1st edition (September 28, 2021)
13.	The 7 Habits of Highly Effective People	Stephen R. Covey	Free Press (1989)
14.	ব্যবস্থাপনা	মোহাম্মদ খালেকুজ্জামান	দি যমুনা পাবলিশার্স
16.	কলেজে আরও ভালো কীভাবে করা যায়	সম্পাদকমন্ডলী	নায়েম, ঢাকা

17. শিল্প প্রতিষ্ঠান উৎকর্ষ অর্জন সম্পাদক	ঢলী নায়েম, ঢাকা
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Website References:

SI	Web Link	Remarks
01.	www.coachinforleaders	Podcast on leadership skills
02.	https://essentialcomm.com/	Podcast on coaching
03.	https://www.manager-tools.com/	Podcast on management
04.	https://www.shrm.org/	Website of the most important HR association in USA
05.	https://www.makingchips.com/	Podcast on manufacturing

SUBJECT CODE	SUBJECT NAME	PERIOD PE	CREDIT	
20555	Digital Design & Brigating	Т	Р	С
29555	Digital Design & Printing	2	3	3

Rationale	Printing Technology has great demand in every sphere of our life. Whatever we use in our daily life there must have some connections with printing. There are many types of printing technologies such as Letterpress printing, Screen printing, Offset printing, Gravure printing and non-major printing process. There are some advance printing technologies in non-major printing process. They have demand in garments printing industries, advertising firm, ceramic industries etc. Diploma engineers will be able to acquire knowledge on gradual development of advance printing technologies, to obtain knowledge of various digital printing presses, to know the equipment and tools used in digital printing by this subject.				
Learning Outcome (Theoretical)	 After undergoing the subject, students will be able to: Differentiate various types of digital printing presses. Explain the equipment and tools used in digital printing process. Describe digital printing ink. Explain problems of digital printing process. Describe digital printing stock/substrate. 				
Learning Outcome (Practical)	 After undergoing the subject, students will be able to: Capture image from various media. Prepare a print setup for digital printing. Create a Light box Pena, festoon, PVC etc. Make a model using 3D printing machine. Perform Maintenance a digital printing press. 				

DETAILED SYLLABUS (THEORY)

Unit	Topics with Contents	Class (1 Period)	Final Marks
1	 DIGITAL PRINTING 1.1 Define digital printing. 1.2 Describe the characteristics of digital printing. 1.3 Discuss the various types of digital printing. 1.4 Describe the difference of digital printing from other major printing process. 1.5 Describe the advantages & disadvantages of digital printing. 	03	05
2	 DIGITAL DESIGN 2.1 Define digital design. 2.2 Describe digital design elements. 2.3 List the software used in digital design. 2.4 Describe edit, crop, resize, adjust and retouch photographic and digitally generated images. 2.5 State the separation process of image from different background using various masking technique. 2.6 Explain the creation process of digital images using layers, styles, filters and channels. 	04	06
3	DIGITAL IMAGE SOURCES 3.1 Describe digital camera images. 3.2 Explain the image capturing process. 3.3 State different sources of images. 3.4 Discuss various file format. 3.5 State various color mode.	02	06
4	DIGITAL PRINTING PRESS 4.1 Define digital press. 4.2 Discuss various types of digital press. 4.3 Describe digital offset press. 4.4 Explain Radio Frequency Identification (RFID) press. 4.6 Discuss Laser Jet Printing (LJP) press. 4.6 Describe Printed Fabric Label (PFL) digital press. 4.7 Discuss Heat Transfer Label (HTL) press.	03	07
5	RAW MATERIALS USED IN DIGITAL PRINTING 5.1 List the raw materials. 5.2 List the media used in digital printing. 5.3 Classify the media used in digital printing. 5.4 Describe the characteristics of the media used in digital printing. 5.5 Describe the Inks used in non-Impact/ digital printing. 5.6 Classify the ink used in digital printing.	03	06
	DIGITAL PRINTING IN ADVERTISING SECTOR.		

6	 6.1 Define advertisement. 6.2 Discuss the scope of digital printing in the advertisement. 6.3 Differentiate among newspaper advertisement, digital printing advertisement & online flat form. 6.4 Discuss the importance of digital printing in the advertising sector. 6.5 Describe the advantage and disadvantage of digital printed advertisement. 	03	06
7	 THE PRINT FINISHING OF DIGITAL PRINTING 7.1 Define finished goods. 7.2 State Eye-letting process. 7.3 Describe the importance of eye-let in digital printing. 7.4 Discuss various decoration in digital printed media. 7.5 Describe the festoon pocket making process. 7.6 Explain the cutting and pocketing process of finished goods. 7.7 Describe the embossing and laminating process of digital printed goods. 	03	06
8	INK JET & THERMOGRAPHIC PRINTING 8.1 Define Ink Jet printing. 8.2 Illustrate the principle of inkjet printing. 8.3 Discuss the types of inkjet printing. 8.4 Describe the ink jet printing systems. 8.5 Discuss the principles of thermographic printing. 8.6 Explain the types of thermographic printing. 8.7 Discuss the thermal sublimation.	04	07
9	UV AND 3D PRINTING 9.1 Define UV printing technology. 9.2 Describe offset & digital UV printing process. 9.3 Explain UV printing raw materials and finished materials. 9.4 Define 3D printing technology. 9.5 Describe 3D printing process. 9.6 Explain 3D printing raw materials and finished materials. 9.7 Define digital printing on textile/fabric media. 9.8 Discuss UV & 3D printing machineries. 9.9 Describe wall printing process.	03	06
10	JOB COSTING & ESTIMATING OF DIGITAL PRINTED MATTER. 10.1 Define estimating and costing. 10.2 Describe the estimating factors. 10.3 Mention the cost of various media and raw materials. 10.4 Describe the estimating process of digital printed matter. 10.5 Explain the job costing procedure for PVC & Pena-flex printing. 10.6 Describe the job costing procedure for paper & non-paper substrates printing. 10.7 Describe the estimating process of UV & wall printing.	04	05

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DETAILED SYLLABUS (PRACTICAL)

SI.	Comparison and Names	Class	Marks
	Experiment Name		(Continuous)
1	Capture image from various media. 1.1 Prepare camera. 1.2 Prepare the tools & equipment's to capture the image. 1.3 Capture the image. 1.4 Maintain the record of performed task. 1.5 Practice the OSH.	1	2
2	Prepare a print setup for digital printing. 2.1 Prepare image for print setup. 2.2 Perform print setup according to paper size. 2.3 Maintain the record of performed task. 2.4 Practice the OSH.	1	2
3	Create a Light box Pena. 3.1 Prepare the machine for printing. 3.2 Perform printing. 3.3 Prepare the light box. 3.4 Attached the printed media on to the light box. 3.5 Maintain the record of performed task. 3.6 Practice the OSH.	2	3
4	Make a festoon. 4.1 Prepare the machine for printing. 4.2 Perform printing. 4.3 Prepare the frame. 4.4 Attached the printed media in the frame. 4.5 Maintain the record of performed task. 4.6 Practice the OSH.	1	2
5	Print an advertisement, size 9'x4' using media PVC. 5.1 Prepare the machine for printing. 5.2 Perform printing. 5.3 Prepare the PVC with eye letting. 5.4 Maintain the record of performed task. 5.5 Practice the OSH.	1	2
6	Design and print X banner (size: 2'x5'). 6.1 Prepare design for print. 6.2 Make ready the machine. 6.3 Perform the printing. 6.4 Mount the banner to the roller. 6.5 Maintain the record of performed task. 6.6 Practice the OSH.	2	3

7	Design and print a mega banner (size: 20' x 60'). 7.1 Prepare design for print. 7.2 Make ready the machine. 7.3 Perform the printing. 7.4 Eyelet / attached the banner on the board. 7.5 Maintain the record of performed task. 7.6 Practice the OSH.	2	3
8	Make a model using 3D printing machine. 8.1 Prepare the machine for printing. 8.2 Position printing head & others parts. 8.3 Perform the printing. 8.4 Maintain the record of performed task. 8.5 Practice the OSH.	2	3
9	Perform Maintenance a digital printing press. 9.1 Perform the printing. 9.2 Clean the inking & printing unit. 9.3 Position printing head & others parts. 9.4 Maintain the record of performed task. 9.5 Practice the OSH.	2	3
10	Identify problems of digital printing machines and solve them. 10.1 Perform the printing. 10.2 Identify the printing problems. 10.3 Solve the detected problem & test the print. 10.4 Maintain the record of performed task. 10.5 Practice the OSH.	2	2
	Tot	al 16	25

NECESSARY RESOURCES (TOOLS, EQUIPMENT'S AND MACHINERY):

SI	Item Name	Quantity
01	Ink jet printing machine	01 set
02	Laser jet printing machine	1 set
03	3D printing machine	2 set
04	UV printing machine	1 set
05	3D wall printing machine	1 set
06	Plotter machine	
07	RFID machine	1 set
08	PFL Machine	1 set
09	HTL machine	1 set
10	Echo solvent printing machine	1 set
11	Light Table	1 set
12	Hand gloves	25 set
13	Goggles	5 set

14	Apron, Mask	50 set	
15	Pencil, Marker	05 Set	
16	Geometrical measurement box	5 set	
17	Scissors, Anti cutter, Scale	5 set	
18	Filament	05 set	
19	Cutting knife	02 set	
20	Sticky glue	05 set	

RECOMMENDED BOOKS:

SI	Book Name	Writer Name	Publisher Name & Edition
01	Handbook of print media	Helmut Kipphan	Heidelberg
02	Mastering 3D Printing	Joan Horvath	Friends of
03	3D PRINTING	Stephanie Torta	MERCURY LEARNING AND
		Jonathan Torta	INFORMATION
04	Mastering Digital	Harald Johnson.	EPUB
	Printing		
05	Post Digital	Alessandro Ludovico	The Mutation
	Print		of Publishing

WEBSITE REFERENCES:

SI	Web Link	Remarks
01	http://printwiki.org	Search here
02	https://it.dru.ac.th/o-bookcs/pdfs/09.pdf	Search here
03	https://www.fellesforbundet.no/globalassets/dokumenter/grafisk/pub	Search here
03	likasjoner/ngu-digital-print-report-2016.pdf	
04	https://monoskop.org/images/a/a6/Ludovico,_AlessandroPost-	Search here
04	Digital_PrintThe_Mutation_of_Publishing_Since_1894.pdf	

SUBJECT CODE	SUBJECT NAME	PERIOD PE	R WEEK	CREDIT
29651	Advertising Design	Т	Р	С
29031	651 Auvertising Design	2	3	3

Rationale	Students will gather knowledge about the advertising and design, scenarios of local or national media, legal issues and copyright, color and composition, branding and corporate identity, tools and material of advertising design, creating advertising, economic and social effects of advertising, the field of advertising, advertising appeal. As a graphic design student should have the knowledge about those topics. That's why we have added this subject in this curriculum.
	After undergoing the subject, students will be able to:
	Describe advertising design
	2. Describe local and national media
Learning	3. Explain legal issues & copyright
Outcome	4. Explain color and composition
(Theoretical)	Describe branding and corporate identity
(meoretical)	6. Explain tools and material of advertising
	Describe economic and social effect of advertising
	8. Explain field of advertising
	9. Describe advertising appeal
	After undergoing the subject, students will be able to:
	 Create a design of a poster for a restaurant opening event
	Perform a design of flyer for an institute offering short course
	Create festoon design for observing a national/international day
	4. Perform newspaper advertisement design
	Create public awareness advertisement design
Learning	6. Create web banner for new product
Outcome	7. Create PVC/ Panaflex back-drop banner design
(Practical)	8. Create shopping bag design for community shop
	9. Create corporate brochure design
	10. Perform four color magazine cover

DETAILED SYLLABUS (THEORY)

Unit	Topics with Contents	Class	Final
		(1 Period)	Marks
1	ADVERTISING AND DESIGN	04	06
	1.1 State the history of advertising.		
	1.2 Define advertising.		
	1.3 Describe the classification of advertising.		
	1.4 Mention the importance of design in advertising.		
	1.5 Describe the content of Advertising Design.		
	1.6 Explain the effects of advertising values of human life		
	style.		
2	SCENARIOS OF LOCAL OR NATIONAL MEDIA	03	06
	2.1 Describe the principles of advertising.		
	2.2 Classify the media for advertising design.		
	2.3 Describe the print advertising & platform.		
	2.4 Discuss the electronic advertising.		
	2.5 Describe the digital advertising platform.		
3	LEGAL ISSUES AND COPYRIGHT	04	06
	3.1 State the legal issues for advertising design.		
	3.2 Explain the importance of copyright in advertising design.		
	3.3 Interpret the printing publication copyright law in		
	Bangladesh.		
	3.4 Describe the ownership of the contents in advertising		
	design.		
	3.5 Explain the importance of model release (model		
	permission).		
	3.6 Discuss the issues of using pictures of children, man &		
	women in		
	advertising.		
	3.7 Mention the issues of using pictures of monument,		
	government		
	building and recognizable personal properties in		
	advertising.		
4	COLOR AND COMPOSITION	04	06
	4.1 Illustrate the principles of composition in advertising		
	design.		
	4.2 Describe the importance of colors for advertising design.		
	4.3 Explain the importance of composition in advertising		
	design.		
	4.4 Describe the colors used for digital advertising.		
	4.5 Discuss the colors used for printed advertising.		

5	BRANDING AND CORPORATE IDENTITY	04	08
	5.1 Define branding.		
	5.2 State the importance of branding.		
	5.2 Explain the corporate identity.		
	5.3 Explain the importance of registered mark & trade mark.		
	5.5 Describe the technique for gift items and stationeries		
	design.		
6	TOOLS AND MATERIAL	01	04
	6.1 Explain the software used in advertising design.		
	6.2 State the elements used in advertising design.		
	6.3 Describe the materials used in advertising design.		
7	CREATING ADVERTISING	02	04
	7.1 Define layout.		
	7.2 Explain various types of shape.		
	7.3 Describe the text formatting.		
	7.4 Discuss image manipulation.		
8	ECONOMIC AND SOCIAL EFFECTS OF ADVERTISING	04	08
	8.1 Define social effects of advertising.		
	8.2 State economic effects of advertising.		
	8.3 Explain the effect of advertising in our culture.		
	8.4 State advertisements role to sell.		
	8.5 Describe sell values, images, concepts and idea.		
	8.6 Explain negative impact of advertising.		
9	THE FIELD OF ADVERTISING	04	08
	9.1 Define outdoor advertising.		
	9.2 Explain different types of outdoor advertising.		
	9.3 Describe advantage & disadvantage of outdoor		
	advertising.		
	9.4 Explain the opportunities as a freelancer in advertising		
	design sector.		
	9.5 State the carrier opportunities in advertising sector.		
10	ADVERTISING APPEAL	02	04
	10.1 Define appeal of advertising.		
	10.2 State the importance of a good advertising appeal.		
	10.3 Describe various types of advertising appeal.		

DETAILED SYLLABUS (PRACTICAL)

SI.	Experiment Name with procedure	Class (3 Period)	Marks (Continuous)
1	CREATE A POSTER DESIGN FOR A RESTAURANT OPENING	02	03
	1.1 Follow Occupational Safety & Health (OSH) practices.		

	1.2 Create 9 setup desument		
	1.2 Create & setup document.		
	1.3 Draw layout & key drawing (offset path, margin		
	& guideline).		
	1.4 Add text, Photos, Image & Illustration.		
	1.5 Follow basic design guideline.		
	1.6 Follow job specification and sample copy.		
	1.7 Save as appropriate file format.		
	1.8 Clean & store tools & equipment.		
	1.9 Maintain the record of perform task.		
2	CREATE A FLYER DESIGN FOR AN INSTITUTE OFFERING	01	02
	SHORT COURSE		
	2.1 Follow Occupational Safety & Health (OSH) practices.		
	2.2 Create & setup document.		
	2.3 Draw layout & key drawing (offset path, margin		
	& guideline)		
	2.4 Add text, Image & Illustration.		
	2.5 Follow basic design guideline.		
	2.6 Follow job specification and sample copy.		
	2.7 Save as appropriate file format.		
	2.8 Clean & store tools & equipment.		
	2.9 Maintain the record of perform task.		
3	CREATE A FESTOON DESIGN FOR OBSERVING A	01	02
3	·	01	02
3	CREATE A FESTOON DESIGN FOR OBSERVING A	01	02
3	CREATE A FESTOON DESIGN FOR OBSERVING A NATIONAL/INTERNTIONAL DAY	01	02
3	CREATE A FESTOON DESIGN FOR OBSERVING A NATIONAL/INTERNTIONAL DAY 3.1 Follow Occupational Safety & Health (OSH) practices.	01	02
3	CREATE A FESTOON DESIGN FOR OBSERVING A NATIONAL/INTERNTIONAL DAY 3.1 Follow Occupational Safety & Health (OSH) practices. 3.2 Create & setup document.	01	02
3	CREATE A FESTOON DESIGN FOR OBSERVING A NATIONAL/INTERNTIONAL DAY 3.1 Follow Occupational Safety & Health (OSH) practices. 3.2 Create & setup document. 3.3 Draw layout & key drawing (offset path, margin	01	02
3	CREATE A FESTOON DESIGN FOR OBSERVING A NATIONAL/INTERNTIONAL DAY 3.1 Follow Occupational Safety & Health (OSH) practices. 3.2 Create & setup document. 3.3 Draw layout & key drawing (offset path, margin & guideline).	01	02
3	CREATE A FESTOON DESIGN FOR OBSERVING A NATIONAL/INTERNTIONAL DAY 3.1 Follow Occupational Safety & Health (OSH) practices. 3.2 Create & setup document. 3.3 Draw layout & key drawing (offset path, margin & guideline). 3.4 Add text & Illustration.	01	02
3	CREATE A FESTOON DESIGN FOR OBSERVING A NATIONAL/INTERNTIONAL DAY 3.1 Follow Occupational Safety & Health (OSH) practices. 3.2 Create & setup document. 3.3 Draw layout & key drawing (offset path, margin & guideline). 3.4 Add text & Illustration. 3.5 Follow basic design guideline.	01	02
3	CREATE A FESTOON DESIGN FOR OBSERVING A NATIONAL/INTERNTIONAL DAY 3.1 Follow Occupational Safety & Health (OSH) practices. 3.2 Create & setup document. 3.3 Draw layout & key drawing (offset path, margin & guideline). 3.4 Add text & Illustration. 3.5 Follow basic design guideline. 3.6 Follow job specification and sample copy. 3.7 Save as appropriate file format.	01	02
3	CREATE A FESTOON DESIGN FOR OBSERVING A NATIONAL/INTERNTIONAL DAY 3.1 Follow Occupational Safety & Health (OSH) practices. 3.2 Create & setup document. 3.3 Draw layout & key drawing (offset path, margin & guideline). 3.4 Add text & Illustration. 3.5 Follow basic design guideline. 3.6 Follow job specification and sample copy.	01	02
3	CREATE A FESTOON DESIGN FOR OBSERVING A NATIONAL/INTERNTIONAL DAY 3.1 Follow Occupational Safety & Health (OSH) practices. 3.2 Create & setup document. 3.3 Draw layout & key drawing (offset path, margin & guideline). 3.4 Add text & Illustration. 3.5 Follow basic design guideline. 3.6 Follow job specification and sample copy. 3.7 Save as appropriate file format. 3.8 Clean & store tools & equipment.	01	02
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	4.8 Clean & store tools & equipment.		
	4.9 Maintain the record of perform task.		
5	CREATE AN ADVERTISEMENT TO MAKE PUBLIC AWARENESS	02	02
	5.1 Follow Occupational Safety & Health (OSH) practices.	<u> </u>	
	5.2 Create & setup document.		
	5.3 Draw layout & key drawing (offset path, margin		
	& guideline).		
	5.4 Add text, logo, Image & Illustration.		
	5.5 Follow basic design guideline.		
	5.6 Follow job specification and sample copy.		
	5.7 Save as appropriate file format.		
	5.8 Clean & store tools & equipment.		
	5.9 Maintain the record of perform task.		
6	CREATE A WEB BANNER FOR NEW PRODUCT	01	02
	6.1 Follow Occupational Safety & Health (OSH) practices.		
	6.2 Create & setup document.		
	6.3 Draw layout & key drawing (offset path, margin		
	& guideline).		
	6.4 Add text, logo, Image & Illustration.		
	6.5 Follow basic design guideline.		
	6.6 Follow job specification and sample copy.		
	6.7 Save as appropriate file format.		
	6.8 Clean & store tools & equipment.		
	6.9 Maintain the record of perform task.		
7	CREATE A PVC/PANAFLEX BACK-DROP BANNER DESIGN	01	03
	7.1 Follow Occupational Safety & Health (OSH) practices.		
	7.2 Create & setup document.		
	7.3 Draw layout & key drawing (offset path, margin		
	& guideline).		
	7.4 Add text, logo, Image & Illustration.		
	7.5 Follow basic design guideline.		
	7.6 Follow job specification and sample copy.		
	7.7 Save as appropriate file format.		
	7.8 Clean & store tools & equipment.		
	7.9 Maintain the record of perform task.	00	
8	CREATE A SHOPPING BAG DESIGN FOR A COMMUNITY	02	02
	SHOP		
	8.1 Follow Occupational Safety & Health (OSH) practices.		
	8.2 Create & setup document.		
	8.3 Draw layout & key drawing (offset path, margin		
	& guideline). 8.4 Add text, logo & Illustration.		
	O.T Add text, 1080 & Illustration.		

	Total	16	25
	10.9 Maintain the record of perform task.		
	10.8 Clean & store tools & equipment.		
	10.7 Save as appropriate file format.		
	10.6 Follow job specification and sample copy.		
	10.5 Follow basic design guideline.		
	10.4 Add text, logo, Image & Illustration.		
	& guideline).		
	10.3 Draw layout & key drawing (offset path, margin		
	10.2 Create & setup document.		
	10.1 Follow Occupational Safety & Health (OSH) practices.		
10	CREATE A FOUR COLOR MAGAZINE COVER	02	03
	9.9 Maintain the record of perform task.		
	9.8 Clean & store tools & equipment.		
	9.7 Save as appropriate file format.		
	9.6 Follow job specification and sample copy.		
	9.5 Follow basic design guideline.		
	9.4 Add text, logo, Image & Illustration.		
	& guideline).		
	9.3 Draw layout & key drawing (offset path, margin		
	9.1 Follow Occupational Safety & Health (OSH) practices.9.2 Create & setup document.		
9	CREATE A CORPORATE BROCHURE DESIGN	02	03
	8.9 Maintain the record of perform task.	02	02
	8.8 Clean & store tools & equipment.		
	8.7 Save as appropriate file format.		
	8.6 Follow job specification and sample copy.		
	8.5 Follow basic design guideline.		

NECESSARY RESOURCES (TOOLS, EQUIPMENT'S AND MACHINERY):

SI	Item Name	Quantity
01	Computer	01 set
02	Scanner	01 set
03	Laser Printer	01 set
04	Color Printer	01 set
05	Digital Camera, SLR, DSLR	01 set
06	Lighting Table	01 set
07	Image setter	01 set
08	Digital Printing Press	01 set

Recommended Software:

SI	Name	Quantity
01	Adobe Illustrator	As Necessary
02	Adobe Photoshop	As Necessary
03	Adobe In Design	As Necessary

RECOMMENDED BOOKS:

SI	Book Name	Writer Name	Publisher Name & Edition
01	S.Y.B.A / S.Y.B.Com.	Dr. R. R. Khan	Professor cum Director Institute of
	ADVERTISING		Distance and Open Learning, Mumbai
02	Advertising	Thomas Russel &	Prentice Hall, 13 th Edition
	Procedure	W. Ronald Lane	
03	Creative Advertising	Thames & Hudson	Mario Pricken

WEBSITE REFERENCES:

SI	Web Link	Remarks
01	https://archive.mu.ac.in/myweb_test/sybcom-avtg-eng.pdf	Search here
02	https://www.infobooks.org/pdfview/9225-introduction-an-	Search here
	advertising-bharathidasan-university/	
03	https://www.infobooks.org/pdfview/9227-the-advertising-creative-	Search here
	process-access-manager/	

SUBJECT CODE	SUBJECT NAME PERIOD PER WEEK		R WEEK	CREDIT
29652	Fabric Design	Т	Р	С
29032	rablic Design	2	3	3

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DETAILED SYLLABUS (THEORY)

Unit	Topics with Contents	Class	Final
		(1 Period)	Marks
1	DRAWING INSTRUMENTS AND THEIR USES	02	03
	1.1. List different instruments used for drawing.		
	1.2. Describe different instruments used for drawing.		
	1.3. Discuss about tracing paper with using.		
	1.4. State the causes of dirty drawing papers.		
	1.5. Explain the general rules to be obeyed during drawing.		
	1.6. Describe the effect of light and shade in a drawing.		
2	BASIC CONCEPT OF FABRIC	01	03
	2.1. Define Fabric.		
	2.2. Mention the classification of fabric manufacturing process.		
	2.3. Define Knitting.		
	2.4. Define Weaving.		
	2.5. Define Felting.		
	2.6. Define Yarn.		
3	BASIC CONCEPT OF PATTERN DESIGN	02	03
	3.1 State the importance of fabric design.		
	3.2 Describe design sources.		
	3.3 Explain the classification of fabric designs.		
	3.4 Define pattern design.		
	3.5 Mention different types of patterns.		
	3.6 Describe art pattern.		
	3.7 Discuss about Mandala Design and pattern		
4	LIGHT AND COLOR PHENOMENA	01	03
	4.1 Describe characteristics of light.		
	4.2 Explain the physical characteristics of color.		
	4.3 Describe about color vision.		
	4.4 Explain subtractive & additive color.		
	4.5 Discuss absorption and transmission of visible light.		
5	BLEACHING	02	02
	5.1 Define Bleaching.		
	5.2 Explain the process of Bleaching.		
	5.3 Describe the classification of bleaching.		
	5.4 Mention chemicals used in bleaching.	_	
6	DYEING & PRINTING PROCESS ON FABRIC	01	02
	6.1 Define Dyeing.		
	6.2 Mention the various printing process on fabrics.		
	6.3 Describe Roller Printing, Block Printing, Burnout, Batik,		
	Inkjet Printing, Carpet Printing and Laser Jet Printing.		

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	6.4 Describe the drying process of the fabric printing.		
7	SCREEN PRINTING ON TEXTILE AND FABRICS	02	03
	7.1 List the textile and fabrics for screen printing.		
	7.2 Describe the manual process of screen printing on textile		
	and fabrics.		
	7.3 Explain the process of stencil making for screen printing.		
	7.4 Describe the use of machine & equipment's used in Screen printing.		
	7.5 Describe Flat Screen Printing, Rotary screen Printing, Flock		
	printing, Glitters printing, Emboss Printing, 3D printing,		
	Crack printing, Plastic soul Printing, Reflective Printing,		
	Radium Printing, Hidensi Printing.		
8	FASHION DESIGN, PLAIN & SATIN WEAVE DESIGN.	02	02
	8.1 Describe the trend of fashion.		
	8.2 Describe the importance of design in clothing.		
	8.3 Define basic cloth drawing.		
	8.4 Differentiate among men's wear, women's wear and		
	kid's wear.		
	8.5 Describe the plain & satin weave design.		
	8.6 Explain the characteristics of plain & satin.		
	8.7 Describe Properties of Satin Fabric.		
	8.8 Discuss the advantage of satin weave.		
9	REGULAR MAT DESIGN & SUBLIMATION PRINT DESIGN	01	02
	9.1 Describe the mat design		
	9.2 Explain the characteristics of mat design		
	9.3 Describe type of mat materials.		
	9.4 Discuss the advantage of mat design.		
	9.5 Describe Sublimation Print Design.		
	9.6 Explain the characteristics Sublimation print design.		
10	FINISHING STAGE OF PRINTED PRODUCT	02	02
	10.1. Define the finished product.		
	10.2. Explain the importance of finishing product.		
	10.3. Describe the stiffening and sifters agent of fabric.		
	10.4. Describe the process of calendaring.		
	10.5. Explain the cloth drying system.		
		16	25

DETAILED SYLLABUS (PRACTICAL)

SI.	Experiment Name procedure	Class (3 Period)	Marks (Continuous)
1	Draw at least 5 designs show light and shade effect		
	1.1 Follow Occupational Safety & Health (OSH) practices.		
	1.2 Identify tools & equipment for free hand drawing.		

	1.3 Create layout & drawing.	1	2
	1.4 Clean & store tools & equipment.		
	1.5 Maintain the record of perform task.		
2	Draw at least 5 designs for body of a saree		
	2.1 Follow Occupational Safety & Health (OSH)		
	practices.	1	2
	2.2 Identify tools & equipment for free hand drawing.		
	2.3 Create free hand drawing.		
	2.4 Add color.		
	2.5 Clean & store tools & equipment.		
	2.6 Maintain the record of perform task.		
3	Draw at least 4 designs for a shirt		
	3.1 Follow Occupational Safety & Health (OSH)		
	practices.		
	3.2 Identify tools & equipment for free hand drawing.	2	3
	3.3 Create free hand drawing.	2	3
	3.4 Add color.		
	3.5 Clean & store tools & equipment.		
	3.6 Maintain the record of perform task.		
4	Draw at least 10 geometrical designs mention the		
	purpose		
	4.1 Follow Occupational Safety & Health (OSH)		
	practices.	1	2
	4.2 Identify tools & equipment for free hand drawing.	1	_
	4.3 Create free hand drawing.		
	4.4 Add color.		
	4.5 Clean & store tools & equipment.		
	4.6 Maintain the record of perform task.		
5	Draw at least 5 designs for body of a Punjabi		
	5.1 Follow Occupational Safety & Health (OSH)		
	practices.	1	2
	5.2 Identify tools & equipment for free hand drawing.		
	5.3 Create free hand drawing.		
	5.4 Add color.		
	5.5 Clean & store tools & equipment.		
	5.6 Maintain the record of perform task.		
6	Enlarge a given design to the required size		
	6.1 Follow Occupational Safety & Health (OSH)		
	practices.		
	6.2 Identify tools & equipment for free hand drawing.	2	3
	6.3 Enlarge design by free hand.	_	
	6.4 Add color.		
	6.5 Clean & store tools & equipment.		

	6.6 Maintain the record of perform task.		
7	Perform color mixing using of color chart		
	7.1 Follow Occupational Safety & Health (OSH)		
	practices.		
	7.2 Identify tools & equipment for free hand drawing.	2	3
	7.3 Draw circle.	_	
	7.4 Add color.		
	7.5 Clean & store tools & equipment.		
	7.6 Maintain the record of perform task.		
8	Apply Block & Batik on fabric		
	8.1 Follow Occupational Safety & Health (OSH)		2
	practices.	2	3
	8.2 Identify tools & equipment.		
	8.3 Prepare bed, fabric and color.		
	8.4 Apply color to the fabric.		
	8.5 Clean & store tools & equipment.		
	8.6 Maintain the record of perform task.		
9	Print on fabric by digital press		
	9.1 Follow Occupational Safety & Health (OSH)	2	3
	practices.	2	3
	9.2 Identify tools & equipment.		
	9.3 Prepare machine and fabric.		
	9.4 Perform print.		
	9.5 Clean & store tools & equipment.		
	9.6 Maintain the record of perform task.		
10	Print on fabric by screen printing		
	10.1 Follow Occupational Safety & Health (OSH)		
	practices.		
	10.2 Identify tools & equipment.	2	2
	10.3 Prepare stencil.		
	10.4 Perform print.		
	10.5 Clean & store tools & equipment.		
	10.6 Maintain the record of perform task.		_
	Tota	al 16	25

NECESSARY RESOURCES (TOOLS, EQUIPMENT'S AND MACHINERY):

SI	Item Name	Quantity
01	Block	05 set
02	Digital fabric printing press	1 set
03	Sublimation press	1 set
04	Eye Glass / Magnifier	5 set

05	Brush (.2", .5" etc.)	5 set
06	Light Table	1 set
07	Hand gloves	25 set
08	Goggles	5 set
09	Apron	25 set
10	Pencil, Marker	05 Set
11	Geometrical measurement box	5 set
12	Scissors, Anti cutter, Scale	5 set

RECOMMENDED BOOKS:

SI	Book Name	Writer Name	Publisher Name & Edition
01	Handbook of print	Helmut Kipphan	Heidelberg
	media		
02	Textile printing	Miles, Leslie W C	Society of dryers & colorest
03	Screen Printing	Robert Adam & Carol	Thames & Hudson ltd.
	(Complete Water	Robertson	
	Base Process.)		
04	Layout	Abdul Mannan	BTEB

WEBSITE REFERENCES:

SI	Web Link	Remarks
01	http://printwiki.org	Search here
02	"https://www.slideshare.net/search?utf8=%E2%9C%93&searchfro	Search here
	m=header&q=screen+printing"q=screen+printing	
03	https://www.screenprinting.com/blogs/news/how-to-start-water-	
	based-printing	

SUBJECT CODE	SUBJECT NAME	PERIOD PER WEEK		CREDIT
29653	Design & Editing	Т	Р	С
29033	Design & Lutting	2	6	4

Rationale	Students will gather knowledge about symbol & swatch, image trace & link, flatten transparency & create outline, preference, graph, color correction, channels, gradient color, modify selection, image resizing. As a graphic design student should have the knowledge about those topics. That's why we have added this subject in this curriculum.		
Learning Outcome (Theoretical)	After undergoing the subject, students will be able to: 1. Describe symbol & swatch. 2. Discuss image trace & link. 3. Explain flatten transparency & create outline. 4. Explain preference. 5. State graph. 6. Describe color correction. 7. Discuss channels. 8. Explain gradient color. 9. State modify selection.		
	10. Describe image resizing.		
	After undergoing the subject, students will be able to: 1. Create 3d logo.		
Learning Outcome (Practical)	 Perform flyer design Create typographical design. Perform a design with pie & column chart. Design booklet. Create annual report design. Design diary inner pages. Perform diary cover design. Design desk calendar. Design wall calendar. Resize image. Create backdrop banner design. Design web template. Create social media banner design. Perform color correction. Perform superimpose design. 		

DETAILED SYLLABUS (THEORY)

Unit	Topics with Contents	Class	Final
		(1 Period)	Marks
1	SYMBOL & SWATCH	03	07
	1.1. Define symbol.		
	1.2. Discuss new symbol.		
	1.3. Describe symbol libraries.		
	1.4. Explain unlink process.		
	1.5. Define swatch.		
	1.6. Discuss process & spot color.		
	1.7. State swatch libraries.		
2	IMAGE TRACE & LINK	03	07
	2.1. Define image trace.		
	2.2. Describe image trace classification.		
	2.3. Explain outline image.		
	2.5. Define embed image.		
	2.6. State link, relink & update link.		
3	FLATTEN TRANSPARENCY & CREATE OUTLINE	04	08
	3.1. Define flatten transparency.		
	3.2. Define anti alias raster's.		
	3.3. Describe overprint.		
	3.4. Explain text create outline.		
	3.5. Describe raster & vector.		
4	PREFERENCE	05	08
	4.1. Describe preference.		
	4.2. Discuss keyboard increment.		
	4.3. State measurement units.		
	4.4. Explain undo & redo option.		
	4.5. Describe guide & grid color.		
	4.6. Discuss auto save option.		
5	GRAPH	05	07
	5.1. Define graph.		
	5.2. Explain types of graph.		
	5.3. State data sheet.		
	5.4. Describe graph style.		
	5.5. Discussgraph option.		
	5.6. Describe value axis.		
6	COLOR CORRECTION	03	04
	6.1 Define color correction.		
	6.2 Describe color correction processes.		
	6.3 Explain color curve.		
	6.4 Discuss selective color.		
	6.5 State hue & saturation.		
7	CHANNEL	02	06
	7.1 Define channel.		
	7.2 Describe tonal balance.		
	7.3 Explain spilt channel.		
	7.4 Discuss two/three color combination.		
	7.5 State duotone color.		
	7.6 Describe greyscale.		1

8	GRADIENT COLOR	03	05
	8.1 Define gradient color.		
	8.2 Describe gradient editor.		
	8.3 Explain gradient types.		
	8.4 Discuss gradient mode.		
	8.5 State gradient opacity.		
	8.6 Describe new gradient color.		
9	MODIFY SELECTION	02	04
	9.1 Define feather.		
	9.2 Describe selection method of Image.		
	9.3 Explain grow & similar.		
	9.4 Discuss transform selection.		
	9.5 State expand & contract selection		
	9.6 Describe quick selection.		
10	IMAGE RESIZING	02	04
	10.1 Define resizing.		
	10.2 Describe canvas & image size.		
	10.3 Explain crop tools.		
	10.4 Discuss new Document.		
	10.5 State transformation.		
	10.6 Describe warp & perspective.		
	Total	32	60

DETAILED SYLLABUS (PRACTICAL)

SI.	Experiment Name with procedure	Class (3 Period)	Marks (Continuous)
1	CREATE 3D LOGO	2	3
	1.1 Follow Occupational Safety & Health (OSH) practices.		
	1.2 Open illustrator software & setup document.		
	1.3 Create layout & drawing.		
	1.4 Insert elements.		
	1.5 Convert elements to 3D.		
	1.6 Follow specification & sample copy.		
	1.7 Save in appropriate file format.		
	1.8 Maintain the record of perform task.		
2	DESIGN A FLYER	2	3
	2.1 Follow Occupational Safety & Health (OSH) practices.		
	2.2 Open illustrator software & setup document.		
	2.3 Create layout & drawing.		
	2.4 Add line, shapes, illustration, text & color.		
	2.5 Follow design principles.		
	2.6 Follow specification & sample copy.		
	2.7 Save in appropriate file format.		
	2.8 Clean & store tools & equipment.		
	2.9 Maintain the record of perform task.		
3	CREATE TYPOGRAPHICAL DESIGN	2	3
	3.1Follow Occupational Safety & Health (OSH) practices.		
	3.2 Open illustrator software & setup document.		
	3.3 Create layout & drawing.		
	3.4 Add text.		

	2. F. Follow decign principles		
	3.5 Follow design principles.		
	3.6 Follow specification & sample copy.		
	3.7 Save in appropriate file format.		
	3.8 Clean & store tools & equipment.		
	3.9 Maintain the record of perform task.		
4	PERFORM A DESIGN WITH PIE & COLUMN CHART	2	3
	4.1Follow Occupational Safety & Health (OSH) practices		
	4.2 Open illustrator software & setup document.		
	4.3 Create layout & drawing.		
	4.4 Add pie & column chart.		
	4.5 Follow design principles.		
	4.6 Follow specification & sample copy.		
	4.7 Save in appropriate file format.		
	4.8 Clean & store tools & equipment.		
	4.9 Maintain the record of perform task.		
5	DESIGN BOOKLET	2	3
	5.1 Follow Occupational Safety & Health (OSH) practices.		
	5.2 Open illustrator software & setup document.		
	5.3 Create layout & drawing.		
	5.4 Add text, image, logo, shapes & color.		
	5.5 Follow design principles.		
	5.6 Follow specification & sample copy.		
	5.7 Save in appropriate file format.		
	5.8 Clean & store tools & equipment.		
	5.9 Maintain the record of perform task.		
6	CREATE ANNUAL REPORT DESIGN	2	3
	6.1 Follow Occupational Safety & Health (OSH) practices.		
	6.2 Open illustrator software & setup document.		
	6.3 Create layout & drawing.		
	6.4 Add text, image, logo, illustration, shapes & color.		
	6.5 Maintain margin & setup page number.		
	6.6 Follow design principles.		
	6.7 Follow specification & sample copy.		
	6.8 Save in appropriate file format.		
	6.9 Clean & store tools & equipment.		
	6.10 Maintain the record of perform task.		
7	DESIGN DIARY INNER PAGES	2	3
	7.1 Follow Occupational Safety & Health (OSH) practices.		
	7.2 Open illustrator software & setup document.		
	7.3 Create layout & drawing.		
	7.4 Add text, illustration, shapes & color.		
	7.5 Follow design principles.		
	7.6 Follow specification & sample copy.		
	7.7 Save in appropriate file format.		
	7.8 Clean & store tools & equipment.		
	7.9 Maintain the record of perform task.		
8	PERFORM DIARY COVER DESIGN	2	3
	8.1Follow Occupational Safety & Health (OSH) practices.	_	
	8.2 Open illustrator software & setup document.		
	8.3 Create layout & drawing.		
	8.4 Add text, image, logo, illustration, shapes & color.		
	8.5 Follow design principles.		
	8.6 Follow specification & sample copy.		
L	1 3.3 ; Show specification & sample copy.		l

	8.7 Save in appropriate file format.		
	8.8 Clean & store tools & equipment.		
0	8.9 Maintain the record of perform task.		2
9	DESIGN DESK CALENDAR	2	3
	9.1 Follow Occupational Safety & Health (OSH) practices.		
	9.2 Open illustrator software & setup document.		
	9.3 Create layout & drawing.		
	9.4 Add text, text wrap, image, logo, illustration, shapes &		
	color.		
	9.5 Follow design principles.		
	9.6 Follow specification & sample copy.		
	9.7 Save in appropriate file format.		
	9.8 Clean & store tools & equipment.		
	9.9 Maintain the record of perform task.		
10	DESIGN WALL CALENDAR	2	3
	10.1 Follow Occupational Safety & Health (OSH) practices.		
	10.2 Open illustrator software & setup document.		
	10.3 Create layout & drawing.		
	10.4 Add text, image, logo, illustration, shapes & color.		
	10.5 Follow design principles.		
	10.6 Follow specification & sample copy.		
	10.7 Save in appropriate file format.		
	10.8 Clean & store tools & equipment.		
	10.9 Maintain the record of perform task.		
11	RESIZE IMAGE	2	3
	11.1 Follow Occupational Safety & Health (OSH) practices.		
	11.2 Open Photoshop software & setup document.		
	11.3 Open Image.		
	11.4 Use crop tool, new document, image size etc.		
	11.5 Maintain resolution.		
	11.6 Follow design principles.		
	11.7 Follow specification & sample copy.		
	11.8 Save in appropriate file format.		
12	CREATE BACKDROP BANNER DESIGN	2	3
	12.1 Follow Occupational Safety & Health (OSH) practices.	_	
	12.2 Open software & setup document.		
	12.3 Create layout & drawing.		
	12.4 Add text, image, logo, illustration, shapes & color.		
	12.5 Follow design principles.		
	12.6 Follow specification & sample copy.		
	12.7 Save in appropriate file format.		
	12.8 Clean & store tools & equipment.		
	12.9 Maintain the record of perform task.		
13	DESIGN WEB TEMPLATE	2	3
10	13.1 Follow Occupational Safety & Health (OSH) practices.	_	
	13.2 Open Photoshop software & setup document.		
	13.3 Create layout & drawing.		
	13.4 Add text, image, signature & color.		
	13.5 Follow design principles.		
	13.6 Follow specification & sample copy.		
	13.7 Save in appropriate file format.		
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	13.9 Maintain the record of perform task.		

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14.2 Open Photoshop software & setup document. 14.3 Create layout & drawing. 14.4 Add line, shapes, illustration, image, text & color. 14.5 Follow design principles. 14.6 Follow specification & sample copy. 14.7 Save in appropriate file format. 14.8 Clean & store tools & equipment. 14.9 Maintain the record of perform task. PERFORM COLOR CORRCTION 15.1 Follow Occupational Safety & Health (OSH) practices. 15.2 Open Photoshop software & setup document. 15.3 Open Image. 15.4 Use color correction options. 15.5 Follow design principles. 15.6 Follow specification & sample copy. 15.7 Save in appropriate file format. 15.9 Maintain the record of perform task. PERFORM COLOR COMBINATION 16.1 Follow Occupational Safety & Health (OSH) practices. 16.2 Open Photoshop software & setup document. 16.3 Open Image. 16.4 Use color combination options. 16.5 Follow design principles. 16.6 Follow specification & sample copy. 16.7 Save in appropriate file format. 16.9 Maintain the record of perform task. PERFORM SUPERIMPOSE DESIGN 17.1 Follow Occupational Safety & Health (OSH) practices. 17.2 Open Photoshop software & setup document. 17.3 Open two or more Images. 17.4 Use masking options. 17.5 Maintain layer. 17.6 Follow design principles. 17.7 Follow specification & sample copy. 17.8 Save in appropriate file format. 17.9 Clean & store tools & equipment. 17.10 Maintain the record of perform task.	14		2	3
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17.10 Maintain the record of perform task.				
		17.9 Clean & store tools & equipment.		
Total 32 50		17.10 Maintain the record of perform task.		
		Total	32	50

NECESSARY RESOURCES (TOOLS, EQUIPMENT'S AND MACHINERY):

SI	Item Name	Quantity
01	Computer	25 no's
02	Scanner	1 no's
03	Digital Camera	1 no's
04	Printer	1 no's

Recommended Software:

SI	Name	Quantity
01	Adobe Illustrator	As Necessary
02	Adobe Photoshop	As Necessary
03	Adobe Acrobat	As Necessary
04	Bijoy	As Necessary
05	Avro	As Necessary

RECOMMENDED BOOKS:

SI	Book Name	Writer Name	Publisher Name & Edition
01	Adobe Illustrator	Bappi Ashraf	GankoshPublication
02	Basic Graphic Design-1	Md. Arifur Rahman	Saba Publication (2019)
03	Adobe Manual		Adobe Inc.
04	Adobe Photoshop	Bappi Ashraf	GankoshPublication
05	Adobe Photoshop Classroom in a Book	Conrad Cavez	Adobe Press.

WEBSITE REFERENCES:

SI	Web Link	Remarks
01	https://www.adobe.com/products/illustrator.html	Search here
02	https://en.wikipedia.org/wiki/Adobe_Illustrator	Search here
03	https://www.adobe.com/products/photoshop.html	Search here
04	https://en.wikipedia.org/wiki/Adobe_ Photoshop	Search here

Subject Code	Subject Name	Period per Week		Credit
20654	29654 Packaging Design -I	Т	Р	С
29034		2	3	3

Rationale	Students will gather knowledge about packaging, layout of packaging design, design & illustration for packaging, marks, media & technique of packaging design, tools, equipment & machineries for packaging, wrapper & cartoon decorative materials, corrugation packaging, folding box & cartoon design, imposition technique, packaging and finishing. As a graphic design student should have the knowledge about those topics. That's why we have added this subject in this curriculum.		
	After undergoing the subject, students will be able to: 1. Describe packaging. 2. Discuss layout of packaging design.		
Learning	3. Explain design & illustration for packaging.		
Outcome	4. Describe marks, media & technique of packaging design.		
	5. State tools, equipment & machineries for packaging.		
(Theoretical)	6. Describe wrapper & cartoon decorative materials.		
	7. Discuss corrugation packaging.		
	8. State folding box & cartoon design.		
	9. Explain imposition technique.		
	After undergoing the subject, students will be able to:		
	1. Identify the tools and equipment for packaging design.		
	2. Identify the packaging Materials.		
	3. Prepare the layout for box and carton.		
Learning	4. Perform layout for box and carton.		
Outcome	5. Prepare manual design for box and carton.		
(Practical)	6. Prepare manual dummy for medicine box.		
(1.1.00.00.1)	7. Prepare a design and carton for garments products.		
	8. Operate the laminating, glue and pasting machine.		
	9. Crease and cut the board with die cutting machine.		
	10. Prepare a design for various handling marks.		

Detailed Syllabus (Theory)

Unit	Topics with Contents	Class (1 Period)	Final Marks
1	PACKAGING	3	6
	1.1 Define Packaging.		
	1.2. Explain the role of packaging in Industrial Sector.		
	1.3 Describe the importance of packaging for goods marketing.		
	1.4. Explain the guidelines for retail packages.		
	1.5. Describe classification of packaging.		
	1.6. Explain the marketing factor of packaging.		
	1.8 Discuss brand perception of packaging.		
2	LAYOUT OF PACKAGING DESIGN		
	2.1 Define layout.		
	2.2 Describe various stages of layout for packaging.		
	2.3 Discuss measurement units for drawing layout.		
	2.4 Describe different types of line in layout drawing.		
	2.5 List the element of layout to prepare packaging design.		
	2.6 Mention the necessity of layout for different sizes of packaging.		
	2.7 Relate between layout and design.		
	2.8 List the tools, equipment & raw material to make a packaging		
	dummy.		
3	DESIGN & ILLUSTRATION FOR PACKAGING	2	4
	3.1 Define packaging design.		
	3.2 Differentiate between packaging design & graphic design.3.3 Explain the principles of packaging design.		
	3.4 Define illustration.3.5 Describe the element of design.		
	3.6 Discuss the key elements of product packaging design.		
	3.7 Explain the importance of illustration in packaging.		
	3.8 Describe the software used in packaging design & illustration.		
	3.9 Explain various pattern & texture in packaging design.3.10 Describe the principle of preparing different patterns in		
	packaging design.		
4	MARKS, MEDIA & TECHNIQUE OF PACKAGING DESIGN		
-	4.1 Describe the various media for packaging design.		
	4.2 Explain different technique of packaging design.		
	4.3 List the name of equipment and accessories used in media and		
	technique.		
	4.4 Describe the basic marks required for product shipment.		
	4.5 Define marks in packaging.		
	4.6 List the packaging symbol.		
	4.7 Explain hidden technical marks for print packaging.		
5	TOOLS, EQUIPMENT & MACHINERIES FOR PACKAGING		
J	5.1 List the tools & equipment for hard packaging.		
	5.1 List the tools & equipment for hard packaging. 5.2 Mention the tools & equipment for soft packaging.		
	5.3 List the machineries used in packaging industry.		
	5.4 Describe about corrugation machine.		

	E E Evaluing 8, cooling machine for necleasing		
	5.5 Explain gluing & sealing machine for packaging.5.6 Explain lamination machine.		
	5.7 Explain pouch making machine.		
	5.8 Discuss about die cutting machine.		
	Sio Discuss about the cutting maxime.		
6	WRAPPER & CARTOON DECORATIVE MATERIALS		
	6.1 Define film.		
	6.2 Discuss different types of film.		
	6.3 Define glitters.		
	6.4 Discuss about foil in print packaging.		
	6.6 Describe different types of lamination materials.		
	6.7 Explain various varnishing materials.		
7	CORRUGATION PACKAGING		
	7.1 Define corrugation board.		
	7.2 Classify the corrugation board.		
	7.3 Describe different types of liner.		
	7.4 Describe liner pasting process.		
	7.4 Define flute count.		
	7.5 Explain importance of flute count of corrugation board.		
	7.6 Describe the corrugation board making process.		
8	FOLDING BOX & CARTOON DESIGN	3	4
	8.1 Define folding box.		
	8.2 Describe the folding box making process.		
	8.3 Describe box styles.		
	8.4 Describe different part of a hard packet or carton.		
	8.5 Explain different factors which are used in manufacturing of		
	folding cartons.		
	8.6 Discuss various kinds of carton.		
9	IMPOSITION TECHNIQUE	3	6
	9.1 Define imposition.		
	9.2 Describe different types of imposition process.		
	9.3 Explain the paste-up technique.		
	9.4 State the cropping technique.		
	9.5 Define ups.		
10	PACKAGING AND FINISHING	3	6
	10.1 Define die cut.		
	10.2 Describe cutting & creasing process.		
	10.3 Explain texture varnishing process.		
	10.4 Define eyelet.		
	10.5 Describe the eyeleting process.		
	10.6 Describe the hot stamping process. 10.7 Explain the distribution or delivery factors of packaging.		
	Total	32	60
	Total	32	00

Detailed Syllabus (Practical)

SI.	Experiment name with procedure	Class	Continuous
		(3 Period)	Marks
1	IDENTIFY TOOLS AND EQUIPMENT FOR PACKAGING DESIGN	2	3
	1.1 Practice the OSH measures.		
	1.2 List the tools and equipment used in packaging design.		
	1.3 Recognize the specific materials.		
	1.4 Maintain and record the job.		
2	IDENTIFY THE PACKAGING MATERIALS	2	3
	2.1 Practice the OSH measures.		
	2.2 List the packaging raw materials.		
	2.3 Recognize the specific materials.		
	2.4 Maintain and record the job.		
3	PERFORM LAYOUT FOR BOX AND CARTON	2	3
	3.1 Practice the OSH measures.		
	3.2 Arrange the materials to draw the layout.		
	3.3 Draw the layout on the flat sheet.		
	3.4 Maintain and record the job.		
4	PREPARE MANUAL DESIGN FOR BOX AND CARTON	2	3
	4.1 Practice the OSH measures.		
	4.2 Make a design using computer.		
	4.3 Finalize the using the hidden marks.		
	4.4 Maintain and record the job.		
5	PREPARE MANUAL DUMMY FOR MEDICINE BOX	2	2
	5.1 Practice the OSH measures.		
	5.2 Print on the sheet.		
	5.3 Cut the design.		
	5.4 Maintain and record the job.		
6	PREPARE THE DUMMY FOR BABY FOOD PACKAGING	1	2
	6.1 Practice the OSH measures.		
	6.2 Print on the sheet using edible ink.		
	6.3 Cut the design.		
	6.4 Maintain and record the job.		
7	PREPARE A DESIGN AND CARTOON FOR GARMENTS	2	3
	PRODUCTS		
	7.1 Practice the OSH measures.		
	7.2 Arrange necessary tools.		
	7.3 Draw the design for garment product packaging.		
	7.4 Make the carton according to design.		
	7.5 Maintain and record the job.		

8	OPERATE THE LAMINATING, GLUE AND PASTING MACHINE	1	2
	8.1 Practice the OSH measures.		
	8.2 Clean and prepare the machine.		
	8.3 Make ready the machine.		
	8.4 Operate the machine.		
	8.5 Maintain and record the job.		
9	CREASE AND CUT THE BOARD WITH DIE CUTTING MACHINE	1	2
	9.1 Practice the OSH measures.		
	9.2 Make the die according to the design.		
	9.3 Lock the die onto the machine according to measurement.		
	9.4 Feed the board to crease and cut as per requirement.		
	9.5 Maintain and record the job.		
10	PREPARE A DESIGN FOR VARIOUS HANDLING MARKS	1	2
	10.1 Practice the OSH measures.		
	10.2 Make the design		
	10.3 Maintain and record the job.		
		16	25

Necessary Resources (materials, tools & equipments):

SI.	Item Name	Quantity
01	Packaging Films	2 roll
02	Packaging foils (multi color)	5 roll
03	Eye Glass / Magnifier	5 set
04	Brush (.2", .5" etc.)	5 set
05	Light Table	1 set
06	Pencil, Marker	05 Set
07	Geometrical measurement box	5 set
08	Scissors, Anti cutter, Scale	5 set
09	Paper (Offset, Newsprint, Art)	10 Ream (Demy)
10	Board (Art, Ivory, Duplex)	10 Ream (Demy)
11	Various types of binding materials	5 set
12	Various types of packaging materials	5 set
13	Pen	10 pc
14	Pencil	10 pc
15	Shading sheet	5 packet
16	Airbrush	10 pc
17	Poster color	5 set
18	Water color	5 set
19	Oil paint	5 set

Recommended Books:

SI	Book Name	Writer Name	Publisher Name & Edition
01	The packaging Designers book.	George Wybenga	John Wily & sons, Inc., Forth Edition
02	Principal of packaging design	Matthias Noback	Lean Publishing

Website References:

SI	Web Link	Remarks
01	http://printwiki.org	
02	https://ssg.stage.exozet.com/wp-content/uploads/2016/08/principles-of-	
	package-design.pdf	
03	https://www.diva-portal.org/smash/get/diva2:1258080/FULLTEXT01.pdf	

SUBJECT CODE	SUBJECT NAME	PERIOD PER WEEK		CREDIT
29655	20655 Craphic Posice III		Р	С
23055	Graphic Design- III	2	3	3

	Contract the short of the state
	Students will gather knowledge about image fundamental, layer, separate image from
	background, color management, painting, retouching & repairing, mask & contraction,
Rationale	corrective filtering, text & shapes, graphics for the web. As a graphic design student
Nationale	should have the knowledge about those topics. That's why we have added this subject in
	this curriculum.
	After undergoing the subject, students will be able to:
	Describe image fundamental
	2. Describe layer
	3. State separate image from background
Learning	4. Describe color management
_	5. Explain painting
Outcome	6. Explain retouching & repairing
(Theoretical)	7. Describe mask & contraction
	8. Explain corrective filtering
	9. Describe text & shapes
	10. Describe graphics for the web
	After undergoing the subject, students will be able to:
	 Install adobe Photoshop software & Identify the Interface
	2. Perform layer related task
	3. Separate Image from Background
	4. Perform channel related task
Learning	5. Perform customization of Layer Mask
Outcome	6. Perform color correction
(Practical)	7. Apply filter
	8. Retouch & restoration Image
	9. Create a clipping Path
	10. Create a hair Mask

DETAILED SYLLABUS (THEORY)

Unit	Topics with Contents	Class (1 Period)	Final Marks
1	IMAGE FUNDAMENTAL		
	1.1 Define digital Image, resolution, pixel & mega pixel		
	1.2 Explain the resolution of screen images.	2	c
	1.3 Discuss file format.	3	6
	1.4 Discuss resampling and cropping.		
	1.5 Describe open, duplicate and save images.		
2	LAYER		
	2.1 Discuss layers.		
	2.2 Describe selecting layer.		
	2.3 Explain creating layer.	3	6
	2.3 State moving, linking, aligning layers.	3	U
	2.4 Discuss applying transformations.		
	2.5 Explain layer masking.		
	2.6 Describe layer style.		
3	SEPARATE IMAGE FROM BACKGROUND		
	3.1 Discuss background.		
	3.2 State magic wand tools.	3	6
	3.3 State lasso tools.	3	U
	3.4 Describe pen tools & path.		
	3.5 Describe save path, work path & Clipping path.		
4	COLOR MANAGEMENT		
	4.1 Describe color selection and editing.		
	4.2 Discuss different color mode.	3	8
	4.3 State methods of color correction.	3	0
	4.4 Describe color channels.		
	4.5 Discuss color channel effects.		
5	PAINTING		
	5.1 Explain paint and edit tools.		
	5.2 Describe brush shape and opacity.		
	5.3 Explain brush modes.	3	6
	5.4 Describe brush dynamics.		
	5.5 Describe uses of different brush.		
	5.6 Describe the procedure to make a new brush.		
6	RETOUCHING & REPAIRING		
	6.1 Describe cloning image element.		
	6.2 Discuss repeating patterns brush.	3	4
	6.3 Explain history palate.	5	4
	6.4 State healing & spot healing brush.		
	6.5 Explain patch tools.		

7	MASK & CONTRACTION		
	7.1 Describe selection using mask.		
	7.2 Discuss painting and editing inside selection.		
	7.3 Describe working in quick mask mode.	3	7
	7.4 Explain generating mask automatically.		
	7.5 Discuss creating independent mask channel.		
	7.6 Describe building a mask from an image.		
8	FILTER EFFECT		
	8.1 Discuss filter.		
	8.2 Interpret heightening focus and contrast.		
	8.3 Describe blurring and image.		
	8.4 Explain color noise factors.	5	8
	8.5 Discuss spot & scratches.		
	8.6 Explain filter gallery.		
	8.7 Discuss unsharp mask.		
	8.8 Describe 3D text and object.		
9	TEXT & SHAPES		
	9.1 Explain the necessity of text editing and manipulation.		
	9.2 Describe vertical and horizontal type arrangement.		
	9.3 Describe text form aligns.	3	4
	9.4 Discuss the process to edit type as shape.	3	4
	9.5 Discuss text as an art.		
	9.6 State drawing shapes and shape attributes.		
	9.7 Describe adding, modifying and saving effects.		
10	GRAPHICS FOR THE WEB		
	10.1 Describe the rules of web imagery.		
	10.2 Explain export image.	3	5
	10.3 Describe the Slice tools.	3	,
	10.4 Explain saving JPG, PNG, GIF and SVG images.		
	10.5 Discuss preparing and saving GIF and SVG images.		
	Total	32	60

DETAILED SYLLABUS (PRACTICAL)

SI.	Experiment Name with procedure	Class (3 Period)	Marks (Continuous)
1	IDENTIFY THE INTERFACE OF PHOTOSHOP 1.1 Follow Occupational Safety & Health (OSH) practices. 1.2 Install Adobe Photoshop software. 1.3 Create & Setup Document. 1.4 Identify the Interface. 1.5 Clean & store tools & equipment. 1.6 Maintain the record of perform task.	1	2
2	WORK WITH LAYER	2	3

	24 5-11- 0	T	
	2.1 Follow Occupational Safety & Health (OSH) practices.		
	2.2 Create & Select Layer.		
	2.3 Create New & Duplicate layer.		
	2.4 Apply Link /Unlink.		
	2.5 Apply active /inactive.		
	2.6 Marge layer.		
	2.4 Flatten Image.		
	2.5 Apply layer style.		
	2.6 Apply blending option.		
	2.7 Save as appropriate file format.		
	2.8 Clean & store tools & equipment.		
	2.9 Maintain the record of perform task.		
3	SEPARATE IMAGE FROM BACKGROUND		
	3.1 Follow Occupational Safety & Health (OSH) practices.		
	3.2 Create a path using pen tool.		
	3.3 Identify edge & Pixel.		
	3.4 Select save & Clipping Path.	2	2
	3.5 Copy & paste selected image.		
	3.6 Follow job specification and sample copy.		
	3.7 Save as appropriate file format.		
	3.8 Clean & store tools & equipment.		
	3.9 Maintain the record of perform task.		
4	WORK WITH CHANNEL		
	4.1 Follow Occupational Safety & Health (OSH) practices.		
	4.2 Create & setup document.		
	4.3 Apply color channel.		
	4.4 Separate color & adjust color tonal balance.	1	2
	4.5 Convert Multi Color to duotone/ mono color.	_	2
	4.6 Follow job specification and sample copy.		
	4.7 Save as appropriate file format.		
	4.8 Clean & store tools & equipment.		
	4.9 Maintain the record of perform task.		
5	PREPARE LAYER MASK		
	5.1 Follow Occupational Safety & Health (OSH) practices.		
	5.2 Create & setup document.		
	5.3 Apply add layer mask.		
	5.4 Create superimpose between one/ more layers.	_	_
	5.5 Follow basic design guideline.	2	3
	5.6 Follow job specification and sample copy.		
	5.7 Save as appropriate file format.		
	5.8 Clean & store tools & equipment.		
	· ·		
6	5.9 Maintain the record of perform task. PERFORM COLOR CORRECTION		
	6.1 Follow Occupational Safety & Health (OSH) practices.	2	2
	6.2 Create & setup document.	2	3
	6.4 Add image & Illustration.		
	6.4 Apply curve, level, selective, color, hue & saturation, auto		

	1		
	tone color correction process.		
	6.5 Follow basic design guideline.		
	6.6 Follow job specification and sample copy.		
	6.7 Save as appropriate file format.		
	6.8 Clean, store tools & equipment.		
7	6.9 Maintain the record of perform task. APPLY FILTER		
,			
	7.1 Follow Occupational Safety & Health (OSH) practices.		
	7.2 Create & setup document.		
	7.3 Add text, logo, Image & Illustration.	1	2
	7.4 Follow basic design guideline.	1	2
	7.5 Follow job specification and sample copy.		
	7.6 Save as appropriate file format.		
	7.7 Clean & store tools & equipment.		
	7.8 Maintain the record of perform task.		
8	RETOUCH & RESTORATION IMAGE		
	8.1 Follow Occupational Safety & Health (OSH) practices.		
	8.2 Open an old Image.		
	8.3 Use various retouch tools.	2	2
	8.4 Follow basic design guideline.	_	_
	8.5 Save as appropriate file format.		
	8.6 Clean & store tools & equipment.		
	8.7 Maintain the record of perform task.		
9	CREATE A CLIPPING PATH		
	9.1 Follow Occupational Safety & Health (OSH) practices.		
	9.2 Open an image.		
	9.3 Use pen tool.		
	9.4 Create path & save path.	1	3
	9.5 Identify path selection, Stroke Path & clipping path.	_	
	9.6 Follow basic design guideline.		
	9.7 Save as appropriate file format.		
	9.8 Clean & store tools & equipment.		
	9.9 Maintain the record of perform task.		
10	CREATE A HAIR MASK		
	10.1 Follow Occupational Safety & Health (OSH) practices.		
	10.2 Import a digital model image.		
	10.3 Use refine edge process.		
	10.4 Apply background eraser tools.	2	2
	10.5 Follow basic design guideline.	2	3
	10.6 Follow job specification and sample copy.		
	10.7 Save as appropriate file format.		
	10.8 Clean & store tools & equipment.		
	10.9 Maintain the record of perform task.		
	Total	16	25
<u></u>			

NECESSARY RESOURCES (TOOLS, EQUIPMENT'S AND MACHINERY):

SI	Item Name	Quantity
01	Computer	25 no's
02	Scanner	1 no's
03	Digital Camera	1 no's
04	Printer	1 no's

Recommended Software:

SI	Name	Quantity
01	Adobe_Photoshop	As Necessary
02	Adobe Acrobat	As Necessary
03	Bijoy	As Necessary
04	Avro	As Necessary

RECOMMENDED BOOKS:

SI	Book Name	Writer Name	Publisher Name & Edition
01	Adobe Photoshop	Bappi Ashraf	Gankosh Publication
02	Adobe Photoshop Classroom in a Book	Conrad cavez	Adobe Press.

WEBSITE REFERENCES:

SI	Web Link	Remarks
01	https://www.adobe.com/products/photoshop.html	Search here
02	https://en.wikipedia.org/wiki/Adobe_ Photoshop	Search here