

RGPV (DIPLOMA WING) BHOPAL		OBE CURRICULUM FOR THE COURSE		FORMAT-3	Sheet No. 1/4
Branch	PRINTING TECHNOLOGY		Semester		THIRD
Course Code	301	Course Name	COMPOSITION METHODOLOGY IN PRINTING		
COURSE OUTCOME 1	Student will be able to choose composing methods for specific job using proper tools equipments & machines.			Teach Hrs	Marks
Learning Outcome 1	To describe various composing techniques and tools, equipment & machinery used for composition.			18	14
Contents	Introduction to composition, application of composition, types of composing method-hand composition, mechanical composition, photo-typesetting, DTP, advantages and limitations. Introduction to tools, equipment's required- type alloy, type - parts and structure, cases, composing stick, spacing materials and others tools used in composing room. Machines- Lino, Mono, Phototypesetter, punching machine, casting machine and their features.				
Method of Assessment	Paper pen test				
Learning Outcome 2	To follow proper safety & cleanliness precautions while working in composing lab.			04	06
Contents	Arrangement of tools, equipment's and materials, working conditions and environment in composing lab for both English and Hindi composition.				
Method of Assessment	Paper pen test, Assignment				

RGPV (DIPLOMA WING) BHOPAL		OBE CURRICULUM FOR THE COURSE		FORMAT-3	Sheet No. 2/4
Branch	PRINTING TECHNOLOGY		Semester	THIRD	
Course Code	301	Course Name	COMPOSITION METHODOLOGY IN PRINTING		
COURSE OUTCOME 2	Student will be able to apply DTP software according to their specific use.			Teach Hrs	Marks
Learning Outcome 1	To explain DTP software used in printing.			08	08
Contents	Introduction to DTP application – proofs, types and corrections for both English and Hindi composition, advantages, limitations and types of DTP software- Word processing, Page layout, Graphic, web publishing & others.				
Method of Assessment	Paper pen test				
Learning Outcome 2	To perform composition on DTP as per given specifications.			10	10
Contents	Compose a given job/work using DTP software's methodology – PageMaker, Corel Draw, Adobe photoshop, Adobe InDesign & others.				
Method of Assessment	Paper pen test with Laboratory assessment				
Learning Outcome 3	To follow standard working procedures & safety measures while using Computers & printers.			04	04
Contents	Standard working procedure for DTP software. Safety measures to be followed while using computer or software - operation and condition.				
Method of Assessment	Paper pen test				

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Branch		PRINTING TECHNOLOGY			Semester		THIRD		
Course Code		301	Course Name			COMPOSITION METHODOLOGY IN PRINTING			
COURSE OUTCOME 3		Student will be able to plan imposing schemes according to given job requirement.				Teach Hrs		Marks	
Learning Outcome 1		To describe various imposing schemes according to job requirement.				12		12	
Contents		Imposition importance of imposition various imposition schemes - work-n-turn, work-n-tumble, rules of imposition importance of white space, types of margins, procedure to prepare laydown sheet as per job/work – orientation, formatting, various terminologies.							
Method of Assessment		Paper pen test							
Learning Outcome 2		To perform various imposing schemes according to job requirement.				10		10	
Contents		Imposition schemes - work-n-turn, work-n-tumble, rules of imposition, types of margins, procedure to prepare laydown sheet as per job/work-orientation, formatting, various terminologies.							
Method of Assessment		Laboratory assessment							
COURSE OUTCOME 4		Student will be able to select proper proofing techniques for corrections of given job.				Teach Hrs		Marks	
Learning Outcome 1		To describe proof reading and correction for a given job.				10		08	
Contents		Introduction to Proof reading and its importance, proofreading marks and application, ways of proofreading, proof-reader checklist, proof-readers tools, qualities of a proof reader.							
Method of Assessment		Paper pen test, Assignment							

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Branch		PRINTING TECHNOLOGY			Semester		THIRD		
Course Code		301	Course Name			COMPOSITION METHODOLOGY IN PRINTING			
Learning Outcome 2		To demonstrate proofing techniques.				12		08	
Contents		Proofreading operations as per composition methods, various types of proof - soft proof, galley proof, hard proof, press proof, final proof, proofing presses.							
Method of Assessment		Laboratory assessment							
COURSE OUTCOME 5		Student will be able to choose fonts & utilise proper measurement techniques according to given job.				Teach Hrs		Marks	
Learning Outcome 1		To prepare a page choosing proper fonts according to job requirements.				12		10	
Contents		Introduction to page makeup, composition using various fonts according to the work.							
Method of Assessment		Paper pen test							
Learning Outcome 2		To explain measurement, point system etc. & its importance in printing.				10		10	
Contents		Introduction to measurement units- Point system, Didot system, type size, em, en space, methods of casting off etc.							
Method of Assessment		Paper pen test							

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Branch	PRINTING TECHNOLOGY		Semester	THIRD	
Course Code	302	Course Name	GRAPHIC DESIGN		
COURSE OUTCOME 1	Student will be able to apply elements of design in the preparation of original.			Teach Hrs	Marks
Learning Outcome 1	To differentiate between graphic design & fine art and various elements of design.			10	10
Contents	Introduction to graphic design, difference between graphic design and fine art, Elements of design- Line, colour, shape, texture, typography, size, space etc. and their use in original preparation.				
Method of Assessment	Paper pen test				
Learning Outcome 2	To design various types of originals and after treatments.			12	10
Contents	Originals and types of originals, their qualities for reproduction and treatments-masking, scaling, cropping, photo retouching etc. Outline pen drawing, brush drawing, charcoal drawings, scratch board drawings, pasteup copies, continuous-tone originals, photo montage.				
Method of Assessment	Laboratory assessment				
COURSE OUTCOME 2	Student will be able to utilise principles of design in layout according to job requirement.			Teach Hrs	Marks
Learning Outcome 1	To define various principles of design, layout & their types.			12	12
Contents	Introduction to various principles of design-Balance, Contrast, Unity, Rhythm, Proportion etc. Dummy - its purpose and preparation of dummy. Layout, its importance in printing/design, functions, purpose, various stages of layout preparation.				
Method of Assessment	Paper pen test				

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Branch	PRINTING TECHNOLOGY			Semester	THIRD
Course Code	302	Course Name		GRAPHIC DESIGN	
Learning Outcome 2	To prepare layout & its types.			10	08
Contents	Various stages of layout preparation - Thumbnail, rough, comprehensive, final pasteup - types of layout, qualifications of layout man.				
Method of Assessment	Laboratory assessment				
COURSE OUTCOME 3	Student will be able to make use of typography & apply according to its specific use.			Teach Hrs	Marks
Learning Outcome 1	To explain typography & its evolution.			12	10
Contents	Typography, evolution of English typefaces, categories or typefaces, history of Devanagari.				
Method of Assessment	Paper pen test				
Learning Outcome 2	To categorise main English typefaces according to their specific features.			10	10
Contents	Classification of typefaces, size, face, family, series, case, group etc.				
Method of Assessment	Paper pen test, Assignment				

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Branch	PRINTING TECHNOLOGY		Semester	THIRD	
Course Code	302	Course Name	GRAPHIC DESIGN		
COURSE OUTCOME 4	Student will be able to identify colour importance in the preparation of design.			Teach Hrs	Marks
Learning Outcome 1	To define various properties of colour.			08	08
Contents	Introduction to colour, human vision, basic attributes of colour - Hue, value, chroma etc, properties-Brightness, warm and cool colour, shade and tints, saturation etc, colour theory - additive theory, subtractive theory.				
Method of Assessment	Paper pen test				
Learning Outcome 2	To describe colour wheel & colour schemes.			08	06
Contents	Colour wheel, various colour schemes - complementary, analogous, triadic, split complementary mono- chromatic, mood and symbolism of colour, selection of colours for two, three and four colour work.				
Method of Assessment	Paper pen test				
Learning Outcome 3	To draw colour wheel & colour schemes with maintain cleanliness of graphic design lab.			08	06
Contents	Colour wheel, various colour schemes. Follow standard procedure while working in graphic design lab.				
Method of Assessment	Laboratory assessment				

RGPV (DIPLOMA WING) BHOPAL		OBE CURRICULUM FOR THE COURSE		FORMAT-3	Sheet No. 4/4
Branch	PRINTING TECHNOLOGY			Semester	THIRD
Course Code	302	Course Name		GRAPHIC DESIGN	
COURSE OUTCOME 5	Student will be able to utilise a design for a particular product according to its use.			Teach Hrs	Marks
Learning Outcome 1	To create design for various products.			14	14
Contents	Design for various products -stationary, commercial, personal, print media, package design etc.				
Method of Assessment	Paper pen test, Laboratory assessment				
Learning Outcome 2	To arrange graphic design room according to work environment.			06	06
Contents	Arrangements like proper lighting, ventilation, working atmosphere etc.				
Method of Assessment	Paper pen test/ Seminar				

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Branch	PRINTING TECHNOLOGY		Semester	THIRD	
Course Code	303	Course Name	PRINTERS' SCIENCE		
COURSE OUTCOME 1	Student will be able to select image carrier metals according to printing process.			Teach Hrs	Marks
Learning Outcome 1	To define type alloy and its use in relief printing process.			06	10
Contents	Type alloys, meaning, properties of metals used their percentage according to type size.				
Method of Assessment	Paper pen test, Assignment				
Learning Outcome 2	To categories metal according to their properties including electroplating for a given printing process.			14	10
Contents	Physical and chemical properties of zinc aluminium and copper and their usage. Electroplating of copper on multi-metal plates for offset and gravure cylinder.				
Method of Assessment	Paper pen test				
COURSE OUTCOME 2	Student will be able to identify image carrier materials used for other printing processes.			Teach Hrs	Marks
Learning Outcome 1	To describe materials for specific printing processes.			14	12
Contents	Rubber, photopolymer, screen cloth, and their properties and applications for specific printing processes.				
Method of Assessment	Paper pen test				
Learning Outcome 2	To describe image carrier for-dry offset.			06	08
Contents	Explain image carrier of dry offset, image carrier preparation for dry offset.				
Method of Assessment	Paper pen test, Assignment				

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Branch	PRINTING TECHNOLOGY		Semester	THIRD	
Course Code	303	Course Name	PRINTERS' SCIENCE		
COURSE OUTCOME 3	Student will be able to identify substrate according to their features and ultimate use in printing.			Teach Hrs	Marks
Learning Outcome 1	To describe fibrous and non-fibrous substrate and their ultimate use in printing.			22	20
Contents	Meaning of substrate, fibrous substrate like paper and boards their properties and surface treatments for ultimate use. Introduction to non-fibrous substrates like polyethylene, polypropylene, metal foils, metallized paper, laminates, polyester etc.				
Method of Assessment	Paper pen test				
COURSE OUTCOME 4	Student will be able to utilise film, sensitizers, chemicals and materials according to their specific use in printing.			Teach Hrs	Marks
Learning Outcome 1	To describe films and its various types. Film processing and chemicals and after treatment chemicals used for the job.			08	06
Contents	Films-sensitometry properties, structure and types - orthochromatic, monochromatic, panchromatic, film processing, and after treatment chemicals, wet collodion process.				
Method of Assessment	Paper pen test				
Learning Outcome 2	To classify colloids and sensitizers and their specific use while maintaining environmental safety precautions.			08	08
Contents	Colloids, their properties, types-natural and synthetic like glue, gum, egg albumen, PVA, diazo etc. Sensitizers, types -silver - silver halide and non-silver - ammonium, potassium bi/di chromate, their job suitability, advantages and limitations. Safety and environmental impacts of materials and chemicals.				
Method of Assessment	Paper pen test				

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Branch	PRINTING TECHNOLOGY		Semester	THIRD	
Course Code	303	Course Name	PRINTERS' SCIENCE		
Learning Outcome 3	To classify adhesives, its properties and applications.			08	06
Contents	Adhesives, its types- Natural, synthetic, hot melts etc, their properties, and their usage.				
Method of Assessment	Paper pen test				
COURSE OUTCOME 5	Student will be able to identify polymer according to end use in printing and packaging industry.			Teach Hrs	Marks
Learning Outcome 1	To explain polymers, polymerization reaction and types of polymers.			18	14
Contents	Monomers, polymers - homo-polymer, co-polymer, types of reaction polymerization addition and condensation types of polymers- plastic, elastomer, fibres etc. their use in printing and packaging industry.				
Method of Assessment	Paper pen test				
Learning Outcome 2	To explain environmental impacts of polymers.			06	06
Contents	Environmental impacts of polymers, plastics on air, water, land and on workers' health.				
Method of Assessment	Paper pen test, Assignment				

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Branch	PRINTING TECHNOLOGY		Semester	THIRD	
Course Code	304	Course Name	FUNDAMENTAL OF PRINTING PROCESSES		
COURSE OUTCOME 1	Student will be able to operate letterpress printing machine to print a given job.			Teach Hrs	Marks
Learning Outcome 1	To demonstrate various types of letterpress printing machines.			10	08
Contents	Introduction to letterpress printing process, principle, image carrier, mode of taking impressions, types of presses, advantages, limitations and applications of process.				
Method of Assessment	Paper pen test				
Learning Outcome 2	To describe pre make ready & make ready by following safety procedure and cleanliness followed while printing.			06	08
Contents	Pre make ready and make ready operations, safety measures while operating machine.				
Method of Assessment	Paper pen test, Assignment				
COURSE OUTCOME 2	Student will be able to organise screen printing process according to job requirement.			Teach Hrs	Marks
Learning Outcome 1	To describe various materials & equipment used in screen printing.			10	10
Contents	Introductions to screen printing process, tools and equipment's – Screen cloth, frame, squeegee, g-clamp etc, advantages, limitations and applications of the process.				
Method of Assessment	Paper pen test				
Learning Outcome 2	To perform screen printing procedure on a given substrate and maintaining cleanliness while working.			10	10
Contents	Procedure of printing on various substrates and types of inks used.				
Method of Assessment	Paper pen test, Laboratory assessment				

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Branch	PRINTING TECHNOLOGY		Semester	THIRD	
Course Code	304	Course Name	FUNDAMENTAL OF PRINTING PROCESSES		
COURSE OUTCOME 3	Student will be able to identify different units of offset printing machine.			Teach Hrs	Marks
Learning Outcome 1	To explain various unit of single colour sheetfed offset machine.			10	10
Contents	Introduction to offset printing process, image carrier, units- Feeding, inking, dampening, printing, delivery, advantages, limitations and applications of the process.				
Method of Assessment	Paper pen test				
Learning Outcome 2	To operate the single colour offset machine and rectify the running defects.			10	10
Contents	Operational and mechanical features of machine, various printing defects their causes and remedy, pre-make ready and make ready procedure safety measures followed while operating the machine.				
Method of Assessment	Paper pen test, Laboratory assessment				
COURSE OUTCOME 4	Student will be able to select gravure or flexography printing process for a given job.			Teach Hrs	Marks
Learning Outcome 1	To explain a printing procedure for a given job on gravure and flexography printing machine.			18	14
Contents	Introduction to gravure printing process, image carrier, substrates, inks, various parts of machine, advantages, limitations and applications, safety measures followed while operating the machine. Introduction to flexography printing process, image carrier, substrate, inks, various parts of machine, advantages, limitations and applications, types of flexographic presses, safety measures followed while operating the machine.				
Method of Assessment	Paper pen test				
Learning Outcome 2	To identify the units of gravure printing machine.			06	06
Contents	Setting of infeed, doctor blade, nip pressure, rewind, inking system, drying unit, different rollers.				
Method of Assessment	Paper pen test, Laboratory assessment				

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Branch	PRINTING TECHNOLOGY		Semester	THIRD	
Course Code	304	Course Name	FUNDAMENTAL OF PRINTING PROCESSES		
Learning Outcome 3	To identify the units of flexography printing machine.			06	06
Contents	Setting of infeed, plate mounting, doctor blade, nip pressure, rewind, inking system, drying unit, anilox rollers and different rollers.				
Method of Assessment	Paper pen test, Laboratory assessment				
COURSE OUTCOME 5	Student will be able to choose miscellaneous printing processes according to job requirement.			Teach Hrs	Marks
Learning Outcome 1	To describe other processes & their specific use.			18	12
Contents	<p>Introduction to Pad printing advantage, limitation, applications.</p> <p>Introduction to on-demand printing advantage, limitation, applications.</p> <p>Introduction to dry offset/letterset advantage, limitation, applications.</p> <p>Introduction to thermography, procedure, advantage, limitation, applications.</p> <p>Introduction to holography, procedure, advantage, limitation, applications.</p>				
Method of Assessment	Paper pen test				
Learning Outcome 2	To explain defects, their causes and remedies in miscellaneous printing processes.			06	06
Contents	Defects, their causes and remedies of pad printing process, flexography, gravure, dry offset and other printing processes.				
Method of Assessment	Paper pen test, Assignment				