# Progressive Education Society's Modern College of Arts, Science and Commerce,

Shivajinagar, Pune 5 (An Autonomous College Affiliated to Savitribai Phule Pune University)

# **Syllabus**

# For B.Sc. (Animation)

# (2019-20 Course)

(witheffectfrom 2019-20)

# **CIA:** Continuous Internal Evaluation

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-1	19CsAniU101	Foundation Art - I (Elements of Drawing)	3	2	40	60	100
CCT-2	19CsAniU102	Basics of Animation - I	3	2	40	60	100
CCT-3	19CsAniU103	Graphic Arts - I (Image Editing)	3	2	40	60	100
CCT-4	19CsAniU104	Elements of 3D Design - I (Modelling)	3	2	40	60	100
CCT-5	19CsAniU105	Programming Languages - I (HTML, CSS)	3	2	40	60	100
CCT-6	19CsAniU106	2D Animation - I	3	2	40	60	100
CCT-7	19CsAniU107	Elements of Information Technology - I (Hardware)	3	2	40	60	100
CCT-8	19CsAniU108	Script Writing - I (Language Skills)	3	2	40	60	100
CCP-1	19CsAniU109	Foundation Art - I and Basics of Animation - I	4	2	40	60	100
CCP-2	19CsAniU110	Graphic Arts - I and 2D Animation - I	4	2	40	60	100
CCP-3	19CsAniU111	Elements of 3D Design - I	4	2	40	60	100
CCP-4	19CsAniU112	Programming Languages - I	4	2	40	60	100
	I	<b>`otal</b>	40	24	<b>480</b>	720	1200
SECT-1	19CpPedU101	Physical Education – I	2	0.5	40	60	100
	Extra Credentials	Activity Based Learning-I – IIT Spoken Tutorial course - Introduction to Computers, HTML			40	60	100

# Semester 1 (First Year)

# Semester 2 (First Year)

Course Type	Course Code	Course / Paper Title	Hours / Week	Credit	CIA	End Sem Exam	Total
CCT-9	19CsAniU201	Foundation Art - II (Elements of Design)	3	2	40	60	100
CCT-10	19CsAniU202	Basics of Animation – II	3	2	40	60	100
CCT-11	19CsAniU203	Graphic Arts - II	3	2	40	60	100
CCT-12	19CsAniU204	Elements of 3D Design - II (3D Dynamics)	3	2	40	60	100
CCT-13	19CsAniU205	Programming Languages - II (C Programming)	3	2	40	60	100
CCT-14	19CsAniU206	2D Animation - II (Action Script)	3	2	40	60	100
CCT-15	19CsAniU207	Elements of Information Technology - II (Networking)	3	2	40	60	100
CCT-16	19CsAniU208	Script Writing - II (Creative Thinking and Writing)	3	2	40	60	100
CCP-5	19CsAniU209	Foundation Art - II and Basics of	4	2	40	60	100

		Animation - II					
CCP-6	19CsAniU210	Graphic Arts - II and 2D	4	2	40	60	100
		Animation - II					
CCP-7	19CsAniU211	Elements of 3D Design – II	4	2	40	60	100
CCP-8	19CsAniU212	Programming Languages- II	4	2	40	60	100
	]	Fotal	40	24	<b>480</b>	720	1200
SECT-1	19CpPedU201	Physical Education – II	2	0.5	40	60	100
	Extra	Activity Based Learning-II – IIT			40	60	100
	Credentials	Spoken Tutorial course-					
		Information Technology					

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous)

## Shivajinagar, Pune - 5

First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU101Course Name: Foundation Art - I(Elements of Drawing)

#### **Teaching Scheme: TH: 3 Hours/Week**

Credit: 02

End-Sem: 60 Marks

**Examination Scheme: CIA: 40 Marks** 

#### **Prerequisite Courses:**

• Drawing Skills, Creative & Logical thinking ability

#### **Course Objectives:**

- To understand drawing as the most powerful visual representation, to make hands free.
- Learn to create simple objects, Perspective drawing, lights and shades, how to create cartoons drawing.

#### **Course Outcomes:**

On completion of the course, student will be able to-

- Students will have improved their visualization power to explore new ideas .
- Students will develop drawing skills.
- Students will be able to create professional artworks.

Chapter 1	Primitive Geometry	6 lectures
	<ul><li>Basic Shapes</li><li>Volume Construction Method</li></ul>	
	Drawing Techniques	
Chapter 2	Perspective Drawing	6 lectures
	<ul> <li>One-point perspective</li> <li>Two-point perspective</li> </ul>	
	Three-point perspective	
	• Foreshortening	
Chapter 3	Introduction to Anatomy	6 lectures
	Bi-peds and Quadrupeds	
	Human Body Proportions	
	Human and Animal Body Bone	
	Structure	
	Muscle Study	
Chapter 4	Light and Shadow Study	6 lectures
	Properties of Light	
	Types of Shadows	
	• Types of drawing pencils	
	Pencil Shading	
Chapter 5	Colour Theory	6 lectures
	Colour Wheel	
	Additive, Subtractive and Pigment	

	Colour Theory	
	Colour Schemes	
	Colour Symbolism	
Chapter 6	Cartoon Drawing	5 lectures
	Facial Expressions	
	Caricature Drawing	
	Rapid Sketching	
Chapter 7	Experiential Learning: Outdoor Sketching	1 lecture

- Figure Study Made Easy By- Aditya Chari Grace Publication
  Perspective By Milind Mulik -- Jyotsna Prakashan
  Animal Anatomy for Artists The Elements of Form Eliot Goldfinger

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune - 5 First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU102 Course Name: Basics of Animation - I

**Teaching Scheme: TH: 3 Hours/Week** 

Credit: 02

End-Sem: 60 Marks

**Examination Scheme: CIA: 40 Marks** 

#### **Prerequisite Courses:**

• Creative ability.

#### **Course Objectives:**

- To understand Fundamentalsof Animation
- Learn to create Animatics for animation projects

#### **Course Outcomes:**

On completion of the course, student will be able to -

- Students will have improved their animation skills.
- Students will develop story board skills.
- Students will be able to create animation projects.

Chapter 1	Introduction to Animation	7 lectures
	Animation Definition	
	Science behind Animation	
	12 Basic Principles of Animation	
Chapter 2	Types of Animation	7 lectures
	Traditional	
	Stop motion	
	2D Animation	
	3D Animation	
Chapter 3	History of Animation	7 lectures
	Conventional methods of Animation	
	Equipment used for Animation during	
	19th century.	
	Qualities of Animation Artist	
Chapter 4	Animation Production Pipeline	7 lectures
	Terms used in Animation	
	Introduction to story board	
Chapter 5	Tools required for Animation	7 lectures
	Light board	
	• Pin bar	
	Digital tools (Software)	
Chapter 7	Experiential Learning:Traditional Animation	1 lecture
	Project	

• The Complete Animation course by Chris Patmore, By – Barons Educational Series (New York)

• Anatomy of the Artist – Thompson & Thompson.

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune - 5

#### First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU103 Course Name: Graphic Arts - I

**Teaching Scheme: TH: 3 Hours/Week** 

**Examination Scheme: CIA: 40 Marks** 

Credit: 02

End-Sem: 60 Marks

#### **Prerequisite Courses:**

Software Skills

## **Course Objectives:**

- To understand aspects of digital design
- Learn to edit digital images

#### **Course Outcomes:**

On completion of the course, student will be able to-

- Students will have improved their software knowledge.
- Students will develop editing skills.
- Students will be able to create professional designs.

Chapter 1	Introduction to digital image editing	6 lectures
	Raster Image	
	Vector Image	
	Image File Formats	
Chapter 2	Photoshop Workspace	6 lectures
	Interface Basic	
	<ul> <li>Palettes and Menus</li> </ul>	
	<ul> <li>Tool Bar - Selection Tools, painting</li> </ul>	
	tools, Editing and retouching tools	
	• Text tools.	
	Ruler, Guides and Grids	
Chapter 3	Preferences	6 lectures
	Recovery and undo	
	Memory and Performance	
	<ul> <li>Image size and Resolution</li> </ul>	
	Cropping and resizing	
Chapter 4	Color	6 lectures
	Color Mode	
	Color Correction	
	Levels and Curves	
Chapter 5	Layers	6 lectures
	Layer concept	
	• Selecting, Grouping and linking layers	
	Layer Effects	

	Layer Mask	
Chapter 6	Filters	5 lectures
	Applying filters	
	<ul> <li>Digital painting techniques</li> </ul>	
	<ul> <li>Automating tasks - creating action</li> </ul>	
Chapter 7	Experiential Learning: Digital Painting	1 lecture

- Adobe Photoshop Bible cs5 by Lisa Danae Dayley, Brad Dayley --- Wiley India ISBN 13 9788126527199
- Adobe Photoshop CS6 (Classroom in a Book), PEARSONPublications, ISBN 978-81-317-9164-6

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous)

# Shivajinagar, Pune - 5

#### First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU104Course Name: Elements of 3D Design – I(Modelling)

Teaching Scheme: TH: 3 Hours/Week

Examination Scheme: CIA: 40 Marks

Credit: 02

End-Sem: 60 Marks

#### **Prerequisite Courses:**

- Basic drawing skill, visual storytelling and concept of moving images should be known.
- Knowledge of basic Computer hardware & software is also necessary.
- Basic Knowledge of cel& 2D Animation

## **Course Objectives:**

- Define Computer-based Animation
- 2D Splines, Shapes & compound object
- 3D Modelling
- Lighting & Camera
- Texturing
- Rendering with M-Ray

## **Course Outcomes:**

On completion of the course, student will be able to

- To develop the skill & knowledge in 3D Modelling.
- Students will understand the knowhow and can function either as an entrepreneur or can take up jobs in the multimedia and animation industry, video studios, edit set-up and other Special Effects sectors

Chapter 1	Concept of 3D Design	6 lectures
	Difference between 2D and 3D design	
	• 3D software	
	3D production pipeline	
Chapter 2	3Ds Max Workspace	6 lectures
	Interface of 3Ds Max	
	<ul> <li>Viewport and Navigation</li> </ul>	
	• Move, Rotate and Scale tools	
	Cloning and Array	
Chapter 3	3D Modelling	6 lectures
	Creating Standard and Extended	
	Primitives	
	<ul> <li>Using Modifiers - Object space,</li> </ul>	
	Selection and World Space Modifiers	
	<ul> <li>Working with Vertex, Polygon and</li> </ul>	
	edge	
	Introduction to Spline Modelling	
	NURBS	
Chapter 4	Material Editor	6 lectures

	Compact editor and Slate editor	
	Shader Concepts	
	Texture and Maps	
	UVW Mapping	
	Unwrap UVW	
Chapter 5	3D Lighting	6 lectures
	Properties of Light	
	<ul> <li>Light Sources - Omni, Spot and</li> </ul>	
	Directional light	
	Ambient Occlusion	
	Photometric lighting, Standard lighting	
	Exposure control	
Chapter 6	Camera and Rendering	5 lectures
	Render Setup	
	Rendering options	
	Camera type	
Chapter 7	Experiential Learning: Creating physical	1 lecture
	3D structure	

• Autodesk 3ds Max 2014 Bible Publisher: Wiley ISBN-13: 978-1118755075

#### *Progressive Education Society's* Modern College of Arts, Science and Commerce (Autonomous)

#### Shivajinagar, Pune - 5 First Year of B.Sc. (Animation) (2019 Course) Course Code:19CsAniU105 Course Name: Programming Languages(HTML & CSS)

**Teaching Scheme: TH: 3 Hours/Week** 

#### Credit: 2

**Examination Scheme: CIA: 40 Marks** 

#### End-Sem: 60 Marks

#### **Prerequisite Courses:**

- Basic Computer awareness
- Fundamentals of computers

#### **Course Objectives:**

- Students can design dynamic web pages using HTML, CSS
- Students can apply CSS properties suitably to make screen design attractive.

#### **Course Outcomes:**

On completion of the course, student will be able to-

• Design web pages using HTML& CSS

• • • • • • • • • • • • •		
Chapter 1	Introduction to Web Technologies	3 lectures
	1.1 Introduction to Web Technologies	
	1.2 How the Website Works?	
	1.3 Clients- Servers and Communication	
	1.4 Client and Server Scripting Languages	
	1.5 Internet-Basic, Internet	
	Protocols(HTTP,FTP,IP)	
	1.6 World Wide Web(WWW)	
	1.7 HTTP request message, HTTP response	
	message	
	1.8 Types of Websites(Static and Dynamic	
	Websites)	
Chapter 2	HTML – OVERVIEW	2 lectures
	2.1 Basics in Web Design	
	2.2 Five Golden rules of web designing	
	2.3 Home Page Layout	
	2.4 Basic HTML Document	
	2.5 HTML Tags	
	2.6 HTML Document Structure	
	2.7 The Declaration	
Chapter 3	HTML – BASIC TAGS	5 lectures
	3.1 Heading Tags, ParagraphTag, Line	
	Break Tag	
	3.2 Centering Content, Horizontal Lines	
	3.3 HTML – COMMENTS	
	3.3 HTML link tag	
	3.5Html Background with Colors, Html	
	Background with Images	
	3.6 Colors and fonts	
	3.7 Marquee	

	3.8 HTML – LISTS	
Chapter 4	HTML – FORMATTING	4 lectures
	4.1 Bold Text, Italic Text, Underlined	
	Text,Strike Text	
	4.2 Superscript Text, Subscript Text	
	4.3 Inserted Text	
	4.4 Deleted Text	
	4.5 Larger Text	
	4.6Smaller Text	
	4.7 Grouping Content	
Chapter 5	HTML – IMAGES	5 lectures
	5.1 Insert Image	
	5.2 Set Image Location	
	5.3 Set Image Width/Height	
	5.4 Set Image Border	
	5.5 Set Image Alignment	
~ .		
Chapter 6	HTML – TABLES	6 lectures
Chapter 6	HTML – TABLES 6.1 Table Heading	6 lectures
Chapter 6	HTML – TABLES6.1 Table Heading6.2 Cellpadding and Cellspacing Attributes	6 lectures
Chapter 6	HTML – TABLES 6.1 Table Heading 6.2 Cellpadding and Cellspacing Attributes 6.3 Colspan and Rowspan Attributes	6 lectures
Chapter 6	HTML – TABLES 6.1 Table Heading 6.2 Cellpadding and Cellspacing Attributes 6.3 Colspan and Rowspan Attributes 6.4 Tables Backgrounds	6 lectures
Chapter 6	HTML – TABLES 6.1 Table Heading 6.2 Cellpadding and Cellspacing Attributes 6.3 Colspan and Rowspan Attributes 6.4 Tables Backgrounds 6.5 Table Height and Width	6 lectures
Chapter 6	HTML – TABLES 6.1 Table Heading 6.2 Cellpadding and Cellspacing Attributes 6.3 Colspan and Rowspan Attributes 6.4 Tables Backgrounds 6.5 Table Height and Width 6.6 Table Caption	6 lectures
Chapter 6	HTML – TABLES6.1 Table Heading6.2 Cellpadding and Cellspacing Attributes6.3 Colspan and Rowspan Attributes6.4 Tables Backgrounds6.5 Table Height and Width6.6 Table Caption6.7 Table Header, Body, and Footer	6 lectures
Chapter 6	HTML – TABLES6.1 Table Heading6.2 Cellpadding and Cellspacing Attributes6.3 Colspan and Rowspan Attributes6.4 Tables Backgrounds6.5 Table Height and Width6.6 Table Caption6.7 Table Header, Body, and Footer6.8 Nested Tables	6 lectures
Chapter 6 Chapter 7	HTML – TABLES6.1 Table Heading6.2 Cellpadding and Cellspacing Attributes6.3 Colspan and Rowspan Attributes6.4 Tables Backgrounds6.5 Table Height and Width6.6 Table Caption6.7 Table Header, Body, and Footer6.8 Nested TablesAdvance HTML tags	6 lectures
Chapter 6 Chapter 7	HTML – TABLES6.1 Table Heading6.2 Cellpadding and Cellspacing Attributes6.3 Colspan and Rowspan Attributes6.4 Tables Backgrounds6.5 Table Height and Width6.6 Table Caption6.7 Table Header, Body, and Footer6.8 Nested TablesAdvance HTML tags7.1 Embedding Audio and Video.	6 lectures
Chapter 6 Chapter 7	HTML – TABLES6.1 Table Heading6.2 Cellpadding and Cellspacing Attributes6.3 Colspan and Rowspan Attributes6.4 Tables Backgrounds6.5 Table Height and Width6.6 Table Caption6.7 Table Header, Body, and Footer6.8 Nested TablesAdvance HTML tags7.1 Embedding Audio and Video.7.2 Working with Text	6 lectures
Chapter 6 Chapter 7	HTML – TABLES6.1 Table Heading6.2 Cellpadding and Cellspacing Attributes6.3 Colspan and Rowspan Attributes6.4 Tables Backgrounds6.5 Table Height and Width6.6 Table Caption6.7 Table Header, Body, and Footer6.8 Nested TablesAdvance HTML tags7.1 Embedding Audio and Video.7.2 Working with Text7.3 Working with Frames	6 lectures
Chapter 6 Chapter 7	HTML – TABLES6.1 Table Heading6.2 Cellpadding and Cellspacing Attributes6.3 Colspan and Rowspan Attributes6.4 Tables Backgrounds6.5 Table Backgrounds6.5 Table Height and Width6.6 Table Caption6.7 Table Header, Body, and Footer6.8 Nested TablesAdvance HTML tags7.1 Embedding Audio and Video.7.2 Working with Text7.3 Working with Frames7.4 Working with controls	6 lectures
Chapter 6 Chapter 7 Chapter 8	HTML – TABLES6.1 Table Heading6.2 Cellpadding and Cellspacing Attributes6.3 Colspan and Rowspan Attributes6.4 Tables Backgrounds6.5 Table Backgrounds6.5 Table Height and Width6.6 Table Caption6.7 Table Header, Body, and Footer6.8 Nested TablesAdvance HTML tags7.1 Embedding Audio and Video.7.2 Working with Text7.3 Working with Frames7.4 Working with controlsIntroduction to HTML JAVASCRIPT	6 lectures 7 lectures 3 lectures

- 1. Complete HTML- Thomas Powell
- 2. HTML and JavaScript–Ivan Bayross

#### **Reference Links**

- https://www.tutorialspoint.com/
   https://www.w3schools.com/

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune - 5

#### First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU106 Course Name: 2D animation - I

**Teaching Scheme: TH: 3 Hours/Week** 

Credit: 02

**Examination Scheme: CIA: 40 Marks** 

End-Sem: 60 Marks

#### **Prerequisite Courses:**

• Basic drawing skill, visual storytelling and concept of moving images should be known. Course Objectives:

• Define Computer-based 2D Animation

#### **Course Outcomes:**

On completion of the course, student will be able to

- To develop the skill & knowledge in 2D Animation
- Students will able to create Flash based 2D Animation applications.

Chapter 1	Introduction to 2D Animation	3 lectures
	Traditional Animation	
	Computer Based Animation	
Chapter 2	Overview of Flash	6 lectures
	Flash Interface	
	Stage Setting	
	Frame Rate	
	• Layers	
	Timeline	
	Properties	
	Flash Tools	
Chapter 3	Drawing in Flash	6 lectures
	Drawing Modes	
	<ul> <li>Drawing Techniques</li> </ul>	
	Text and Colors	
Chapter 4	Symbols	6 lectures
	Graphic Symbol	
	Button Symbol	
	Movie clip symbol	
Chapter 5	Animation	6 lectures
	Frame and Key frame	
	Motion Guide	
	Key frame animation	
	Masking	
Chapter 6	Tweens	6 lectures
	Motion Tween	
	Classic Tween	
	Shape Tween	
Chapter 7	Sound in Flash	2 lectures
	Importing Sound	

	Editing Sound	
Chapter 8	Experiential Learning: Flip Book	1 lecture

• Flash CS4 Professional Bible Published by Wiley Publishing (Robert R & Snow D.)

#### *Progressive Education Society's* Modern College of Arts, Science and Commerce (Autonomous)

#### Shivajinagar, Pune - 5 FirstYear of B.Sc. (Animation)(2019 Course) Course Code: 19CsAniU107Course Name:Elements of InformationTechnology(Hardware)

#### Teaching Scheme: TH: 3 Hours/Week

Credit: 02

Examination Scheme: CIA:40 Marks Prerequisite Courses:

End-Sem:60 Marks

• Preliminary knowledge of computer, their operations and applications.

## **Course Objectives:**

- The main objective is to introduce IT in a simple language to all undergraduate students, regardless of their specialization. It will help them to pursue specialized programs leading to technical and professional careers and certifications in the IT industry.
- The focus of the subject is on introducing skills relating to IT basics, computer applications, programming, interactive medias, Internet basics etc.

#### **Course Outcomes:**

On completion of the course, student will be able to-

(a) Understand basic concepts and terminology of information technology.

(b) Have a basic understanding of personal computers and their operations.

(c) Be able to identify issues related to information security.

Chapter 1	Introduction	3 lectures
	<ul><li>Characteristics of computer</li><li>Evolution of computer</li><li>Computer generations</li></ul>	
Chapter 2	Basic Computer organization	4 lectures
	<ul> <li>Input unit</li> <li>Output unit</li> <li>Storage unit</li> <li>ALU,CU,CPU</li> <li>The system Concept</li> </ul>	
Chapter 3	Number Systems	4 lectures
	<ul> <li>What is decimal, Binary, Octal, Hexadecimal number system</li> <li>Converting from one numbersystemtoanother</li> </ul>	
Chapter 4	Processor and Memory	4 lectures
	<ul><li>DetailCentralprocessingUnit</li><li>DetailstudyofMainMemory</li></ul>	
Chapter 5	Secondary Storage Devices	5 lectures

	<ul> <li>SequentialandDirect-AccessDevices</li> <li>MagneticDisks</li> <li>OpticalDisks</li> <li>MemorystorageDevices</li> </ul>	
Chapter 6	Input-Output Devices	6 lectures
	<ul> <li>Whatisinputandoutputdevice</li> <li>Keyboard</li> <li>Point-and-DrawDevice</li> <li>Monitors</li> <li>VDU</li> <li>Plotters Printerandtypesofprinter</li> </ul>	
Chapter 7	ComputerProgram	9 lectures
	<ul> <li>WhatisAlgorithm?</li> <li>SampleAlgorithms</li> <li>Representationofalgorithm</li> <li>WhatisFlowchart?</li> <li>Whytouseflowcharts</li> <li>Flowchartsymbols</li> <li>Levelsofflowchart</li> <li>Flowchartingrules</li> <li>Advantagesanddisadvantagesofflowcharts</li> <li>Machinelanguage</li> <li>Assemblylanguage</li> <li>High-levellanguage</li> </ul>	
Chapter 8	Experiential Learning: Observing Hardware	1 lecture

1.ComputerFundamentsByPradeep K.Sinha&Priti Sinha,sixthEdition(BPBPublication)

2. Fundamentals of Computers by V. Rajaraman

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune - 5 First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU108 Course Name: Script Writing - I

Teaching Scheme: TH: 3 Hours/Week

Credit: 02

End-Sem: 60 Marks

**Examination Scheme: CIA: 40 Marks** 

#### **Prerequisite Courses:**

• Language Skill

#### **Course Objectives:**

- To be an excellent communicator as the value of an idea in a visual medium is determined by how well it is delivered to the audience.
- To develop an eye for details and keen observation skills whereby students will be able to break ordinary patters of life and see that which is extraordinary.
- To Learn to convert our ideas from their abstract form to captivating scripts.

#### **Course Outcomes:**

On completion of the course, student will be able to-

- Students will have improved communication skills to expound on their ideas in oral and written form.
- Students will develop a simultaneous consciousness to master vertical as well as lateral thinking.
- Students will be able to write a spec script.

Chapter 1	Introduction to Language Skills for Animation	7 lectures
	Comprehension Skills	
	Vocabulary	
	• Verbs	
	• Tense	
	Subject verb agreement	
	English in Action	
Chapter 2	Introduction to Creative Thinking	5 lectures
	The way the mind works	
	Difference between lateral and vertical	
	thinking	
	Nature of Lateral Thinking	
	Use of Lateral Thinking	
Chapter 3	Creative Thinking: Technique and Application	6 lectures
	The generation of alternatives	
	Challenging assumptions	
	Innovation	
	Suspended judgement	
	• Design	

	<ul> <li>Dominant ideas and crucial factors</li> </ul>	
Chapter 4	Story Dynamics: Building Blocks	6 lectures
	<ul> <li>Different scripts for varied mediums</li> </ul>	
	<ul> <li>Identifying your script with a Genre</li> </ul>	
	Role of Foreshadowing, Crisis and Big	
	Event.	
	<ul> <li><u>Turning points in a plot-</u></li> </ul>	
	Plot structure of Action and	
	Emotion driven script	
	Plot structure of Goal driven script	
	Drawing captivating characters	
Chapter 5	Story Dynamics: Content Development	6 lectures
	• The role of dialogue, subtext and	
	exposition	
	• Writing for television: Suspense and	
	sitcoms	
	Copy editing	
	Review Writing	
Chapter 6	Introduction to Script Writing	5 lectures
	<ul> <li>Materializing your ideas</li> </ul>	
	<ul> <li>Development of plot and sub-plot</li> </ul>	
	<ul> <li>Review your story from third person'</li> </ul>	
	perspective	
	Drafting of a spec script	
Chapter 7	Experiential Learning : Stand up Performance	1 lecture

- Practising English (A Workbook), by M. S. Nagaraja Rao and D. S. Manjunatha, Published 2013 (Reprinted 2014), Orient Black Swan Private Ltd.
- Lateral Thinking- Creativity Step by Step, by Edward De Bono, Published 1990 (Reissued 2015), Harper Perennial.
- Creativity Workout- 62 Exercises to Unlock Your Most Creative Ideas, by Edward De Bono, Published by Ulysses Press, US.
- Hack Into Your Creativity- Story Prompts for Every Type of Writers, by Michael Burns, Published 2017, Penguin Random House, India.
- The Script Writer's Bible, by David Trottier, 6<sup>th</sup> Edition, Silman- James Press, Los Angeles.

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune - 5 First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU109 Course Name: Foundation Art - I (Elements of Drawing) and Basics of Animation -I Teaching Scheme: TH: 4 Hours/Week Credit: 02

**Examination Scheme: CIA: 40 Marks** 

End-Sem: 60 Marks

## **Course Objectives:**

- To understand drawing as the most powerful visual representation, to make hands free.
- Learn to create simple objects, Perspective drawing, lights and shades, how to create cartoons drawing.

## **Course Outcomes:**

On completion of the course, student will be able to-

- Students will have improved their visualization power to explore new ideas .
- Students will develop drawing skills.
- Students will be able to create professional artworks.

No	Торіс	Lectures
1	Assignment on Lines and curves	2
2	Assignment on Geometrical Shapes	2
3	Assignment on Illustration	2
4	Assignment on Pencil Shading	2
5	Assignment on One point perspective	2
6	Assignment on Two point perspective	2
7	Assignment on Three point perspective	2
8	Assignment on Foreshortening	2
9	Assignment on Anatomy	2
10	Assignment on Color whee	2

#### **Progressive Education Society's**

#### Modern College of Arts, Science and Commerce (Autonomous)

#### Shivajinagar, Pune - 5

#### First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU110 Course Name: Graphic Arts - I and 2-D Animation - I

#### **Teaching Scheme: TH: 4 Hours/Week**

Credit: 02

#### **Examination Scheme: CIA: 40 Marks**

#### End-Sem: 60 Marks

#### **Course Objectives:**

- To understand aspects of digital design
- Learn to edit digital images

#### **Course Outcomes:**

On completion of the course, student will be able to:

- Students will have improved their software knowledge.
- Students will develop editing skills.
- Students will be able to create professional designs.

No	Topic	Lectures
1	Assignment on Image Cropping, resizing	2
2	Assignment on Colour correction	2
3	Assignment on Remove Background, change Background	2
4	Assignment on Black and white to colour	2
5	Assignment on Applying filters	2
6	Assignment on Text graphics	2
7	Assignment on Layer effects	2
8	Assignment on Masking	2
9	Assignment on Digital Painting	2
10	Assignment on Compositing	2

## **Progressive Education Society's**

#### Modern College of Arts, Science and Commerce (Autonomous)

#### Shivajinagar, Pune - 5

#### First Year of B.Sc. (Animation) (2019 Course)

Course Code: 19CsAniU111 CourseName: Elements of 3D Design – I (Modelling)

**Teaching Scheme: TH: 4 Hours/Week** 

#### **Examination Scheme: CIA: 40 Marks**

End-Sem: 60 Marks

Credit: 02

#### **Course Objectives:**

- Define Computer-based Animation
- 2D Splines, Shapes & compound object
- 3D Modelling
- Lighting & Camera
- Texturing
- Rendering with M-Ray

#### **Course Outcomes:**

On completion of the course, student will be able to

- To develop the skill & knowledge in 3D Modelling.
- Students will understand the knowhow and can function either as an entrepreneur or can take up jobs in the multimedia and animation industry, video studios, edit set-up and other Special Effects sectors

No	Topic	Lectures
1	Assignment on Table and chair	4
2	Assignment on House Model	4
3	Assignment on Mobile Phone	4
4	Assignment on Interior	4
5	Assignment on Fruit Dish Model	4
6	Assignment on Bike	4
7	Assignment on Car model	4
8	Assignment on Face Model	4
9	Assignment on Human Body Model	4
10	Assignment on Animal Mode	4

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous), Shivajinagar, Pune - 5 First Year of B.Sc. (Animation) (2019 Course)

## Course Code: 19CsAniU112Course Name: Programming Languages -I (HTML & CSS)

#### **Teaching Scheme: TH: 4 Hours/Week**

# Examination Scheme: CIA: 40 Marks

Credit: 02

End-Sem: 60 Marks

#### **Course Objectives:**

- Students can design dynamic web pages using HTML, CSS
- Students can apply CSS properties suitably to make screen design attractive.

#### **Course Outcomes:**

On completion of the course, student will be able to-

• Design web pages using HTML& CSS

No	Торіс	Lectures
1	Assignment on Creating Simple HTML Pages.	4
2	Assignment on HTML Programming using lists, hyperlinks.	4
3	Assignment on HTML Programming using table .	
4	Assignment on HTML Programming using frames, iframes.	4
5	Assignment on Advanced feature of HTML (Using Inline CSS).	4
6	Assignment on Advanced features of HTML(Using Internal CSS).	4
7	Assignment on Advanced features of HTML(Using External CSS).	4
8	Assignment on Creation of forms, small case study to create HTML	4
	pages using all the above learnt techniques.	
9	Assignment on Creation of Forms layout designing by using div element with CSS property.	4
10	CASE STUDY-I	4

# Shivajinagar, Pune - 5 First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU113 Course Name: 2D animation - I

#### **Teaching Scheme: TH: 4 Hours/Week**

Credit: 02

Examination Scheme: CIA: 40 Marks

End-Sem: 60 Marks

## **Course Objectives:**

• Define Computer-based 2D Animation

#### **Course Outcomes:**

On completion of the course, student will be able to

- To develop the skill & knowledge in 2D Animation
- Students will able to create Flash based 2D Animation applications.

No	Торіс	Lectures
1	Assignment on Drawing in Flash	4
2	Assignment on Table fan animation	4
3	Assignment on Frog Jump animation	
4	Assignment on Bouncing ball	4
5	Assignment on Moving car	4
6	Assignment on Giant wheel	4
7	Assignment on Bi-ped walk cycle	4
8	Assignment on Quadruped walk cycle	4
9	Assignment on Bird fly cycle	4
10	Assignment on Facial expressions	4

#### **Progressive Education Society's**

#### Modern College of Arts, Science and Commerce (Autonomous)

#### Shivajinagar, Pune - 5

#### First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU201Course Name: Foundation Art - II (Elements of Design)

**Teaching Scheme: TH: 3 Hours/Week** 

Credit 02

End-Sem: 60 Marks

### **Examination Scheme: CIA: 40 Marks**

# Prerequisite Courses:

Design Skill

#### **Course Objectives:**

- To understand design basics and principles.
- Learn to create 3D models from different materials.

#### **Course Outcomes:**

On completion of the course, student will be able to-

- Students will have improved their designing power
- Students will develop modelling skills.
- Students will be able to create sets for Film and Animation projects.

Chapter 1	Introduction To Visual Design	7 lectures
	Elements of Design	
	Principles of Design	
	• Space - positive & negative space	
Chapter 2	Gestalt's Laws of Design	7 lectures
	Proximity	
	Similarity	
	• Pragnanz	
	Law of Closure	
	Figure and Ground	
Chapter 3	Introduction to Material	7 lectures
	• Paper	
	Cloth	
	• Wood	
	• Clay	
Chapter 4	3D Modelling Techniques	8 lectures
	Paper Modelling	
	Cloth Puppets	
	Clay Modelling	
	Cut out animation character	
Chapter 5	Set Design	6 lectures

	<ul> <li>Floor Plan</li> <li>Structure Design</li> <li>Set Modelling</li> <li>Texturing</li> </ul>	
Chapter 6	Experiential Learning : Outdoor Landscape	1 Lecture

- Figure Study Made Easy By- Aditya Chari Grace Publication
  Perspective By Milind Mulik -- Jyotsna Prakashan
- Animal Anatomy for Artists The Elements of Form Eliot Goldfinger -

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune - 5 First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU202 Course Name: Basics of Animation - II

**Teaching Scheme: TH: 3 Hours/Week** 

Credit 02

End-Sem: 60 Marks

**Examination Scheme: CIA: 40 Marks** 

#### **Prerequisite Courses:**

• Creative ability.

#### **Course Objectives:**

- To understand Fundamentals of Animation
- Learn to create Animatics for animation projects

#### **Course Outcomes:**

On completion of the course, student will be able to -

- Students will have improved their animation skills.
- Students will develop story board skills.
- Students will be able to create animation projects.

#### **Course Contents**

Chapter 1	Character Design	7 lectures
	Character Bible	
	Character turn around	
	Props	
Chapter 2	Background design	7 lectures
	<ul> <li>Outdoor background</li> </ul>	
	Indoor background	
	Background Themes	
	Color Palette of Background	
Chapter 3	Animatics	7 lectures
	Graphic Animation	
	Line testing	
	<ul> <li>Animatics with sound</li> </ul>	
Chapter 4	Animation Movements	7 lectures
	Trajectory	
	Observing real life action	
	Sequential movement drawing	
Chapter 5	In- between Drawing	7 lectures
	Pose to pose Animation	
	Straight ahead Animation	
Chapter 6	Experiential Learning : Hand painted	1 lecture
	Animation	

#### **Reference books:**

- The Complete Animation course by Chris Patmore, By Barons Educational Series (New York)
- Anatomy of the Artist Thompson & Thompson.

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune - 5 First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU203 Course Name: Graphic Arts - II

**Teaching Scheme: TH: 3 Hours/Week** 

Credit 02

End-Sem: 60 Marks

**Examination Scheme: CIA: 40 Marks** 

#### **Prerequisite Courses:**

Software Skills

#### **Course Objectives:**

- To understand aspects of digital design
- Learn Graphic Designing techniques

#### **Course Outcomes:**

On completion of the course, student will be able to-

- Students will have improved their software knowledge.
- Students will develop Graphicdesigning skills.
- Students will be able to create professional Graphic designs.

Chapter 1	Introduction to digital designing	6 lectures
	Laws of Typography	
	Digital Design Principles	
	• Design measurements, crop marks,	
	layouts	
	Logo Design	
Chapter 2	Corel Draw Workspace	6 lectures
	Corel Draw Interface	
	Menu bar Options	
	Tool Bar options	
Chapter 3	Working With Shapes	6 lectures
	Creating Objects	
	Editing Objects	
	Convert to curves	
	<ul> <li>Arranging objects</li> </ul>	
	Grouping objects	
Chapter 4	Text Options	6 lectures
	Character formatting	
	Paragraph formatting	
	Columns	
	• Fit text to path	
	• Envelop	
Chapter 5	Interactive tools	6 lectures

	Blend tool	
	Contour tool	
	Distort tool	
	Drop shadow tool	
	Envelop tool	
	• Extrude tool	
	Transparency tool	
Chapter 6	Working with Bitmaps	5 lectures
	Edit Bitmap	
	Power clip options	
	Trace bitmap	
	Bitmap Effects	
Chapter 7	Experiential Learning : Graphical Collage	1 lecture

• Corel Draw Graphic suit Manual

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous)

# Shivajinagar, Pune - 5

#### First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU204 Course Name: Elements of 3D Design - II (3D Dynamics)

Teaching Scheme: TH: 3 Hours/Week

Credit 02

**Examination Scheme: CIA: 40 Marks** 

#### End-Sem: 60 Marks

#### **Prerequisite Courses:**

- Basic drawing skill, visual storytelling and concept of moving images should be known.
- Knowledge of basic Computer hardware & software is also necessary.
- Basic Knowledge of cel& 2D Animation

#### **Course Objectives:**

- Define Computer-based Animation
- 2D Splines, Shapes & compound object
- 3D Modelling and Animation
- Lighting & Camera
- Texturing
- Rendering with M-Ray
- Particle system

#### **Course Outcomes:**

On completion of the course, student will be able to

- To develop the skill & knowledge in 3D Modelling and Animation
- Students will understand the knowhow and can function either as an entrepreneur or can take up jobs in the multimedia and animation industry, video studios, edit set-up and other Special Effects sectors

Chapter 1	3D Animation	6 lectures
	Using Timeline	
	Timeline configuration	
	<ul> <li>Moving Objects</li> </ul>	
	Path Animation	
	<ul> <li>Morphing Objects</li> </ul>	
Chapter 2	Rigging	6 lectures
	Forward Kinematics	
	Inverse Kinematics	
	• Setting the bones	
	<ul> <li>Skinning- Bind Skin</li> </ul>	
	Joint Constraints	

Chapter 3	Particle System in Max	6 lectures
	Particle Flow Source (PF Source)	
	• Spray	
	Snow	
	Blizzard	
	• P array	
	• P cloud	
	• Super spray	
Chapter 4	Cloth Simulation	6 lectures
	Animating Cloth	
	Garment Maker	
	Space Warps	
Chapter 5	Atmospheric Effects	6 lectures
	Fire Effect	
	Fog Effect	
	Lens Effect	
	Render Effect	
	Auto Secondary	
Chapter 6	Solid Body Collisions	5 lectures
	Soft Body Collision	
	Rigid Body Collision	
Chapter 6	Experiential Learning : Observing Real life	1 lecture1
	Dynamics	

• Autodesk 3Ds Max Bible

### *Progressive Education Society's* Modern College of Arts, Science and Commerce (Autonomous)

#### Shivajinagar, Pune - 5 First Year of B.Sc. (Animation) (2019 Course) Course Code:19CsAniU205Course Name: Programming Languages(C Programming)

**Teaching Scheme: TH: 3 Hours/Week** 

Credit: 2

#### Examination Scheme: CIA :50 Marks

#### End-Sem: 60 Marks

#### **Prerequisite Courses:**

- Basic Computer awareness
- Fundamentals of computers

#### **Course Objectives:**

- To introduce foundations of problem solving methodologies and programming.
- To develop the ability in student to analyze the problem and develop algorithm to solve the problem.
- To develop the programming skill and logic to solve the arithmetic and logical problems.
- To understand the various steps in program development through the structured programming approach.
- To learn the syntax and semantics of C programming language thereby learning the programming concepts in general.

#### **Course Outcomes:**

On completion of the course, student will be able to-

- Develop his / her own algorithms, flowcharts for a given problem.
- Write the program from the pseudo code.
- Develop his / her own logic to solve any problem using programming tool.
- Formulate the problem in the form of program of any programming language.
- Code, test and debug the given logic in C programming language.
- To decompose a problem into functions and to develop modular reusable code.

Chapter 1	Introduction to C	10 lectures
	History	
	• Structure of a C program	
	<ul> <li>Functions as building blocks</li> </ul>	
	Keywords	
	• Identifiers	
	Variables	
	• Constants character, integer, oat,	
	string, escape sequences	
	• Data types:-built-in and user defined	
	• Operators and Expressions: Operator	
	types (arithmetic, relational, logical,	
	assignment, bitwise, conditional, other	
	operators),	
	<ul> <li>Precedence and associatively rules.</li> </ul>	

	Simple programming	
Chapter 2	Control Structures	5 lectures
	Decision making structures: If, if-	
	else, switch	
	• Loop Control structures: While,	
	do-while, for	
	Nested structures	
	break and continue	
Chapter 3	Functions in C	5 lectures
	Definition and declaration	
	Parameter Passing to functions	
	Global and local variables	
	• Formal and actual parameters	
Chapter 4	Arrays	6 lectures
	Array declaration, initialization	
	• Types one, two and	
	multidimensional	
	Passing arrays to functions	
Chapter 5	Pointers	4 lectures
	• What is pointer?	
	• Use of pointer.	
	• Implementation of pointer	
Chapter 6	Structures	5 lectures
	• What is structure?	
	• What is use of structures?	
	Creating structure	
	Introduction to Union	
Chapter 7	Experiential Learning :Programming Quiz	1 lecture

- 1. Problem Solving and Programming Concept, Maureen Sprankle,7<sup>th</sup> Edition, ISBN-10: 0-13-119459-3,ISBN-13: 978-0-13-119459-5, Pearson Publication.
- 2. How to Solve it by Computer, R.G. Dromey, Pearson Education. ISBN-10: 81-317-0562-5
- Let us C by YashwantKanetkar, BPB Publication 2018, ISBN 9387284492, 9789387284494
   C: the Complete Reference, Schildt Herbert, 4<sup>th</sup> edition, McGraw Hill, ISBN 0071502394, 9780071502399
- 5. A Structured Programming Approach Using C, Behrouz A. Forouzan, Richard F. Gilberg, Cengage Learning India, ISBN8131507629, 9788131507629
- 6. The 'C' programming language, Brian Kernighan, Dennis Ritchie, PHI ,2nd Edition, ISBN 0131103628, 9780131103627
- 7. Programming in C , A Practical Approach, Ajay Mittal , Pearson , ISBN 978-81-317-2934-2
- 8. Programming with C, B. Gottfried, 2<sup>nd</sup>edition, Schaum's outline Series, Tata McGraw Hill, ISBN 0071142592, 9780071142595
- 9. Programming in ANSI C, E. Balagurusamy, 6<sup>th</sup> Edition, McGraw Hill, ISBN 129051005

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune - 5 First Year of B.Sc. (Animation) (2019 Course)

Course Code: 19CsAniU206 Course Name: 2D animation –II (Action Script)

**Teaching Scheme: TH: 3 Hours/Week** 

**Examination Scheme: CIA: 40 Marks** 

Prerequisite Courses:

• Basic knowledge of programming.

## **Course Objectives:**

• Define Action script coding.

#### **Course Outcomes:**

On completion of the course, student will be able to

- To develop the skill & knowledge in 2D Animation with action script coding
- Students will able to create Flash based interactive applications.

#### **Course Contents**

Chapter 1	Introduction to Action script	7 lectures
	Object Oriented Language Concepts	
	<ul> <li>Variables and their scope in Flash</li> </ul>	
	Data type Variables	
	Arithmetic operations	
Chapter 2	Conditional Logic	8 lectures
	Script control	
	Multiple conditions	
	Nested Conditions	
	Switch cases	
Chapter 3	Arrays	7 lectures
	Understanding Array	
	<ul> <li>Properties and Methods</li> </ul>	
	Multidimensional Arrays	
	Use of Array	
Chapter 4	Loops	7 lectures
	Importance of Loops	
	Nested Loops	
	loop Conditions	
	Functions	
Chapter 5	Event Handler	6 lectures
	Key board Events and Mouse Events	
	Event Listener	
	Call backs	
Chapter 6	Experiential Learning : Action Script Quiz	1 lecture

Credit 02

End-Sem: 60 Marks

• Flash CS4 Professional Bible Published by Wiley Publishing (Robert R & Snow D.)

#### *Progressive Education Society's* Modern College of Arts, Science and Commerce (Autonomous)

#### Shivajinagar, Pune - 5 FirstYear of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU207 Course Name: Elements of Information Technology(Networking)

Teaching Scheme: TH: 3 Hours/Week

Credit: 02

End-Sem: 60 Marks

Examination Scheme: CIA: 40 Marks Prerequisite Courses:

• Preliminary knowledge of computer, their operations and applications. Course Objectives:

- The main objective is to introduce IT in a simple language to all undergraduate students, regardless of their specialization. It will help them to pursue specialized programs leading to technical and professional careers and certifications in the IT industry.
- The focus of the subject is on introducing skills relating to IT basics, computer applications, programming, interactive medias, Internet basics etc.

# **Course Outcomes:**

On completion of the course, student will be able to-

- (a) Understand basic concepts and terminology of information technology.
- (b) Have a basic understanding of personal computers and their operations.
- (c) Be able to identify issues related to information security

Chapter 1	OperatingSystems	8lectures
	• What is operating system?	
	• Main functions of Operating systems	
	• What is process?	
	• Process management in early systems	
	Memory management	
	• File management	
	Device management	
	• Security	
Chapter 2	Data Communication and Computer	10
	Networks	lectures
	Basic Elements of Communication	
	Data Transmission Mode	
	Data Transmission Media	
	<ul> <li>Digital and Analog data transmission</li> </ul>	
	• Data transmission services	
	<ul> <li>Multiplexing Techniques</li> </ul>	
	<ul> <li>Asynchronous and synchronous</li> </ul>	
	transmission	
	Switching techniques	
	• Routing	

	<ul> <li>Network topology</li> <li>Network Types</li> <li>Communication protocol</li> <li>Internetworking Tools</li> <li>Wireless Networks</li> </ul>	
	<ul> <li>Distributed Computing system</li> </ul>	
Chapter 3	The Internet	5 lectures
	<ul> <li>Definition</li> <li>Brief History</li> <li>Electronic mail</li> <li>FTP</li> <li>Telnet</li> <li>WWW</li> <li>Internet search engines</li> <li>Uses of the internet</li> </ul>	
Chapter 4	Classification of Computers	4 lectures
	<ul> <li>Notebook Computer</li> <li>Personal Computers</li> <li>Mainframe system</li> <li>Supercomputer</li> <li>Client and server computers</li> <li>Handheld Computer</li> </ul>	
Chapter 5	Computer viruses	5 lectures
	<ul> <li>An overview of Computer viruses</li> <li>What is a virus? Virus symptoms, How do they get transmitted</li> <li>What are the dangers?</li> <li>General Precaution</li> </ul>	
Chapter 6	Internet searches:	3 lectures
	<ul> <li>Search engines: Google, Yahoo.</li> <li>Concepts in text-based searching</li> <li>Searching Medline, Pub Med, bibliographic databases</li> </ul>	
Chapter 7	Experiential Learning : Hardware assembly, Software installation	1 lecture

Computer Networks.4th edition (2008).Tanen Baum. Pearson Education, India

# **Progressive Education Society's** Modern College of Arts, Science and Commerce (Autonomous)

## Shivajinagar, Pune - 5

First Year of B.Sc. (Animation)(2019 Course) Course Code: 19CsAniU208 Course Name: Script Writing - II (Creative Thinking and Writing)

Teaching Scheme: TH: 3 Hours/Week

Credit: 02

End-Sem: 60 Marks

#### **Examination Scheme: CIA: 40 Marks**

#### **Prerequisite Courses:**

• Communication Skill.

#### **Course Objectives:**

- To study advance intricacies of language to further one's eloquence.
- To learn creative thinking techniques to enhance lateral thinking.
- To produce a finished script keeping in mind style guide, plagiarism, and techniques of marketing the final product.

#### **Course Outcomes:**

On completion of the course, student will be able to-

- Students will be able to read, write, speak and comprehend texts with ease with an enhanced command over language.
- Students will be able to make lateral thinking a way of life along with vertical thinking.
- Students will be able to acquaint oneself with the format of presentation of a script and pitching the same.

Chapter 1	Advanced Language Skills	6 lectures
	Comprehension skills and vocabulary	
	Modal Auxiliaries	
	Articles	
	Preposition	
	Active and Passive Voice	
	• Types of sentences	
	Reported Speech	
Chapter 2	Advanced Creative Thinking Strategies	6 lectures
	Role of Fractionation	
	The Reversal Method	
	Brainstorming	
	Analogies	
	Choice of Entry Point and Attention	
	Area	
Chapter 3	Tools for Enhancing Creative Thinking	6 lectures
	Random Stimulation	
	<ul> <li>Concept/ division/ polarization</li> </ul>	
	• The Importance of Cues to the Mind.	
	Mind block	
	Problem solving	

Chapter 4	Script Writing: Drafting and Binding	6 lectures
	Birds eye view of formatting	
	Study of a Sample Script	
	Scene heading	
	Narrative Description and	
	Dialogue	
Chapter 5	Glossary of Script Writing Terms	6 lectures
	Compilation of Terms Discussed	
	During the Course	
	Compilation of Rarely Used Terms	
Chapter 6	Marketing your content	6 lectures
	<ul> <li>Making your script market-ready</li> </ul>	
	Finding an agent	
	Crafting the query	
	Preparing a pitch	
	Protecting your work	
Chapter 7	Experiential Learning : Group Skit	1 lecture
	performance	

- Practising English (A Workbook), by M. S. Nagaraja Rao and D. S. Manjunatha, Published 2013 (Reprinted 2014), Orient BlackSwan Private Ltd.
- Lateral Thinking- Creativity Step by Step, by Edward De Bono, Published 1990 (Reissued 2015), Harper Perennial.
- Creativity Workout- 62 Exercises to Unlock Your Most Creative Ideas, by Edward De Bono, Published by Ulysses Press, US.
- Hack Into Your Creativity- Story Prompts for Every Type of Writers, by Michael Burns, Published 2017, Penguin Random House, India.
- The Script Writer's Bible, by David Trottier, 6<sup>th</sup> Edition, Silman- James Press, Los Angeles.

#### **Progressive Education Society's**

#### Modern College of Arts, Science and Commerce (Autonomous)

#### Shivajinagar, Pune - 5

First Year of B.Sc. (Animation) (2019 Course)

Course Code: 19CsAniU209Course Name: Foundation Art - II (Elements of Design) and Basics of

Animation -II

**Teaching Scheme: TH: 4 Hours/Week** 

Credit: 02

#### **Examination Scheme: CIA: 40 Marks**

End-Sem: 60 Marks

#### **Course Objectives:**

- To understand design basics and principles.
- Learn to create 3D models from different materials.

#### **Course Outcomes:**

On completion of the course, student will be able to-

- Students will have improved their designing power
- Students will develop modelling skills.
- Students will be able to create sets for Film and Animation projects.

No	Торіс	Lectures
1	Assignment on Logo Design	4
2	Assignment on Photo Collage	4
3	Assignment on Paper Model	4
4	Assignment on Cloth Puppet	4
5	Assignment on Wood carving	4
6	Assignment on Clay model	4
7	Assignment on Set model	4
8	Assignment on Wall painting	4
9	Assignment on Graffiti	4
10	Assignment on Retail Design	4

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune - 5

## First Year of B.Sc. (Animation) (2019 Course) Course Code: 19CsAniU210 Course Name: Graphic Arts – II and 2D Animation -II

**Teaching Scheme: TH: 4 Hours/Week** 

Credit: 02

## **Examination Scheme: CIA: 40 Marks**

End-Sem: 60 Marks

#### **Course Objectives:**

- To understand aspects of digital design
- Learn Graphic Designing techniques

#### **Course Outcomes:**

On completion of the course, student will be able to-

- Students will have improved their software knowledge.
- Students will develop Graphic designing skills.
- Students will be able to create professional Graphic designs.

No	Торіс	Lectures
1	Assignment on Visiting card, letterhead and envelop	4
2	Assignment on Book cover	4
3	Assignment on Magazine cover	
4	Assignment on CD cover	4
5	Assignment on Advertisement	4
6	Assignment on Newspaper layout	4
7	Assignment on Menu card	4
8	Assignment on Greeting card	4
9	Assignment on Bank cheque design	4
10	Assignment on Textile Design	4

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune - 5 First Year of B.Sc. (Animation) (2019 Course)

# Course Code: 19CsAniU2111Course Name: Elements of 3D Design – II (3D Dynamics)

**Teaching Scheme: TH: 4 Hours/Week** 

**Examination Scheme: CIA: 40 Marks** 

Credit: 02

End-Sem: 60 Marks

#### **Course Objectives:**

- Define Computer-based Animation
- 2D Splines, Shapes & compound object
- 3D Modelling and Animation
- Lighting & Camera
- Texturing
- Rendering with M-Ray
- Particle system

#### **Course Outcomes:**

On completion of the course, student will be able to

- To develop the skill & knowledge in 3D Modelling and Animation
- Students will understand the knowhow and can function either as an entrepreneur or can take up jobs in the multimedia and animation industry, video studios, edit set-up and other Special Effects sectors

No	Торіс	Lectures
1	Assignment on Flag simulation	4
2	Assignment on Garment maker	4
3	Assignment on Rigging and skinning	4
4	Assignment on Path animation	4
5	Assignment on Fluid effect	4
6	Assignment on Particle effects	4
7	Assignment on Camera movements	4
8	Assignment on Solid body collision	4
9	Assignment on Facial expressions	4
10	Assignment on Lip Synchrinization	4

#### **Progressive Education Society's**

#### Modern College of Arts, Science and Commerce (Autonomous),

Shivajinagar, Pune - 5

First Year of B.Sc. (Animation) (2019 Course)

Course Code: 19CsAniU212Course Name: Programming Languages –II (C Programming)

#### **Teaching Scheme: TH: 4 Hours/Week**

Credit: 02

#### **Examination Scheme: CIA: 40 Marks**

# End-Sem: 60 Marks

#### **Course Objectives:**

- To introduce foundations of problem solving methodologies and programming.
- To develop the ability in student to analyze the problem and develop algorithm to solve the problem.
- To develop the programming skill and logic to solve the arithmetic and logical problems.
- To understand the various steps in program development through the structured programming approach.
- To learn the syntax and semantics of C programming language thereby learning the programming concepts in general.

## **Course Outcomes:**

On completion of the course, student will be able to-

- Develop his / her own algorithms, flowcharts for a given problem.
- Write the program from the pseudo code.
- Develop his / her own logic to solve any problem using programming tool.
- Formulate the problem in the form of program of any programming language.
- Code, test and debug the given logic in C programming language.
- To decompose a problem into functions and to develop modular reusable code.

No	Topic	Lectures
1	Assignmenttodemonstrateuseofdatatypes,simpleoperators (expressions)	4
2	Assignmenttodemonstratedecisionmakingstatements(ifand if- else,nested structures) and switch case	4
3	Assignmenttodemonstratedecisionmakingstatementsusing switch case and menu driven programming	
4	Assignment to demonstrate use of simple loops and nested loops	4
5	AssignmenttodemonstratewritingCprogramsinmodularway( useofuserdefined functions and standard library functions)	4
6	Assignment to demonstrate recursive functions.	4
7	Assignmenttodemonstrateuseofarrays(1-d and 2-d arrays) and functions	4
8	Assignment to demonstrate use of pointers, string and pointers	4

9	Assignment to demonstrate array of strings, array and functions	4
10	Assignment to demonstrate structures and unions	4

# Progressive Education Society's Modern College of Arts, Science and Commerce (Autonomous) Shivajinagar, Pune - 5 First Year of B.Sc. (Animation) (2019 Course)

Course Code: 19CsAniU213CourseName: 2D animation - II (Action Script)

**Teaching Scheme: TH: 4 Hours/Week** 

Credit: 02

**Examination Scheme: CIA: 40 Marks** 

End-Sem: 60 Marks

#### **Course Objectives:**

• Define Action script coding.

#### **Course Outcomes:**

On completion of the course, student will be able to

- To develop the skill & knowledge in 2D Animation with action script coding
- Students will able to create Flash based interactive applications.

No	Topic	Lectures
1	Assignment on Calculator	4
2	Assignment on Image Gallery	4
3	Assignment on Button click	4
4	Assignment on Image swapping	4
5	Assignment on Keyboard events	4
6	Assignment on Puzzle game	4
7	Assignment on Quiz game	4
8	Assignment on E- learning application	4
9	Assignment on Interactive website	4
10	Assignment on Flash game with sound	4