



Fatima College

(Autonomous)

Mary Land, Madurai - 625018, Tamil Nadu.

DEPARTMENT OF INFORMATION TECHNOLOGY

1.3.2&1.3.3 VALUE ADDED COURSES

FATIMACOLLEGE(Autonomous),MADURAI

B.ScINFORMATION TECHNOLOGY

CRASH COURSE ON 3D ANIMATION

USING SCRATCH 4.0 TOOL

Scratch

AFTER THE COURSE:

- **IMPROVES CREATIVITY SKILL**
- **POSITIVE PEERINTERACTION**
- **DEVELOPING TECHNICAL SKILL**



COURSE FEE: RS
1000/-





Fatima College

(Autonomous)

Mary Land, Madurai - 625018, Tamil Nadu.

CRASH COURSE ON - 3D ANIMATION - 19UGVAI1

COURSE DESCRIPTION

This course introduces animation design and graphics techniques using Scratch.

COURSE OBJECTIVES

To facilitate the student to understand the concepts using program to develop games, stories, and animations using hands-on examples to make them thinking and tinkering.

COURSE OUTCOMES(CO)

No.	Course Outcome	Knowledge Level(According to Bloom's Taxonomy)
CO 1	Provides an overview of Scratch and its features.	K1
CO 2	Guides us through the installation of Scratch on Windows also helps you run the Scratch programming environment.	K2
CO 3	Explores the Scratch interface and allows us to create some simple scripts that demonstrate how easily we can build a project.	K2
CO 4	How to create an animated birthday card and a slideshow of our favourite photos.	K3
CO 5	Develop various Code projects on Scratch	K5

UNIT I: INTRODUCTION TO SCRATCH:

[6Hrs]

What is Scratch? - Programming concepts - Installation of scratch - Run Scratch from flash drive - Integrate Scratch with the PortableApps.com suite - Troubleshooting - Limitations.

UNIT II: START SCRATCHING:

[6 Hrs]

The interface at a glance Time for action - first step - Basics of a Scratch project - We're all actors on Scratch's stage - save your work - **Set the cat in motion**- a big step - Coordinating a sprite's location - Double-click control - Time for action - in motion forever **Add sprites to the stage** - Get new sprites - Browse Scratch's projects - Costume versus background.

UNIT III: GRAPHICS & SLIDESHOWS:

[6 Hrs]

Interface design - Set the stage - paint the stage - Adding gradients - Sprite costumes - address the card - Working with sprites - Animating the card - hide all sprites - Graphical transformations.

UNIT IV: BUILD A PHOTO SLIDESHOW:

[6 Hrs]

Insert a title screen - Import photos from disk - Image formats - Working with images - Resize images - How to measure images - flip through the photos - Building audience participation.

UNIT V: SCRATCH CODE PROJECTS:

[6Hrs]

Ghost Busters - Rock band - Lost in space - Cat boat - paint box - Boat in race - Memory game - Brain game - Create your own world

TEXT BOOK:

Scratch 1.4 Beginners Guide - Learn to program while creating interactive stories , games and multimedia projects using Scratch - by Michael Badger -

PACKT publishing, Mumbai.

WEB REFERENCES:

<http://scratch.mit.edu>
[www.https://codeclub.org](http://codeclub.org) > .

[illegible]

மாணவர்

வருகைப் பதிவேடு

20வீர ஆண்டு வீரதீ!

மாதிரி

[illegible]

DEPARTMENT OF IT



FATIMA COLLEGE (Autonomous)

Re-Accredited with 'A' Grade by NAAC (3rd Cycle)

College with Potential for Excellence

Mary Land, Madurai - 625018

This is to certify that Ms. S. AKSHAYA
has successfully completed the Value Added Crash Course on

ANIMATION SOFTWARE

during the academic year 2020 - 2021 and has been
awarded Distinction / First ✓ / Second class.

Dr. Sr. G. Celine Sahaya Mary

Dr. Sr. G. Celine Sahaya Mary
Principal

[Signature]
Head of the Department

P. Nany
Co-ordinator