Multimedia
[2 Credits 30 hours]

Course Objective:

The aim of this course is to provide an understanding of concepts in video and audio editing.

Learning Outcome:

The student will be able to remember various features provided by Openshot and Audacity, choose necessary effects and create a movie/mix track.

Course Contents

1. Introduction to Mullimedia: What is Multimedia? , Components of Multimedia, Multimedia Research Topics and Projects , Multimedia and Hypermedia ,History of Multimedia , Hypermedia and Multimedia .World Wide Web , History ofthe WWW, HyperText Transfer Protocol (HTTP) .HyperText Markup Language (HTML) , Extensible Markup Language (XML)(4)

2. Multimedia Authoring and Tools: Multimedia Authoring, Multimedia Authoring Metaphors, Multimedia Production, Multimedia Presentation, Automatic Authoring , Some Useful Editing and Authoring Tools (4)

3. Graphics and hnage Data Representations : GraphiesIlmage Data Types ,BitImages, 8-Bit Gray Level Images ,Image Data Types ,24~Bit Color Images , 8-Bit Color Images , Color Lookup Tables (LUTs) . Popular File Formats , GIF , JPEG , PNG , TIFF , EXIF ,Graphics Animation Files . PS and PDF (5)

4. Color in Image and Video :Color Science , Light and Spectra , Human Vision , Spectral Sensitivity of the Eye , Image Formation ,Camera Systems , Gamma Correction , Color-Matching Functions , CIE Chromaticity Diagram , Color Monitor Specifications , Out-of-Gamut Colors ,White-Point tion ,XYZ to RGB Transform , Transform with Gamma Correction ,Color'Models in Images , RGB Color Model for CRT Displays , Subtractive Color: CMY Color Model ,Transformation from RGB to CMY .Undercolor Removal: CMYK System, Printer Gamuts ,Color Models in Video , Video Color Transforms , YUV Color Model (6)

5. Fundamental Concepts in Video :Types of Video Signals ,Component Video , Composite Video , S-Video,Analog Video ,NTSC Video , PAL Video , SECAM Video ,Digital Video , Chroma Subsampling ,CCIR Standards for Digital Video (4)

6. Multimedia Data Compression : Lossless Compression Algorithms, Lossy compression algorithms(3)

7. Basic Video Compression Techniques : Introduction to Video Compression , Video Compression Based on Motion Compensation .(4)

Ms Shulpa Naik

Reference:

1. Ze-Nian Li and Mark S. Drew, Fundamentals of multimedia

Dempo Charities Trust

Dhempe College of Arts & Science

Miramar – Goa.

Academic Year : **2018 -19**

SHORT TERM COURCE ATTENDANCE SHEET

Name of the Course : Multimedia

Topic : _____

Class :- SYBSc Computer Science

Batch :- _____

		1	2	3	4	5	6	7	8	9	10
	Lecture No.	1	2	3	4	5	6	7	8		
	Date:-	04/08/18	11/08/18	18/08/18	25/08/8	01/09/18	08/09/18	15/09/18	22/09/18	29/09/8	05/01/19
	Time:-	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs	2 hrs
Roll no.	**Name of Student**										
17262	Narayan Bandodkar	NSB	NSB	NSB	NSB	NSB	NSB	NSB	NSB	NSB	NSB
17264	Ganesh Biini										
17268	Dhana Valen Ferro										
17274	Smita Malik										
17276	Vibhav Pissurlenkar										
17277	Junaber Shaikh										
17278	Nihal Shetye										
17281	Sejur Yousuy										
17282	samiullah Rupul										
17283	Tejas Lotlikar	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas	Tejas
17285	Apurva A. Patil										
17287	Sweta Naik										
17291	Fatima .A. H										
17292											

Name & Signature of the Teacher

(Saurabh Naik)

Dhempe College of Arts & Science

Miramar – Goa.

Academic Year : **2018 -19**

SHORT TERM COURCE ATTENDANCE SHEET

Name of the Course : Multimedia

Class :- SYBSc Computer Science

Topic : _____

Batch:-_____

Roll no.	Name of Student	Lecture No. 1	2	3	4	5	6	7	8	9	10
		Date:- 04/08/18	11/08/18	18/08/18	25/08/18	01/09/18	08/09/18	15/09/18	22/09/18	29/09/18	05/01/19
		Time:- 2 hrs	2 hrs	2hrs	2hrs	2hrs	2hrs	2hrs	2hrs	2hrs	2hrs
17292	Shrinidhi Kaxi	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
17263	Tanisha Bhat	Bhatt	Bhatt	Bhatt	Bhatt	Bhatt	Bhatt	Bhatt	Bhatt	Bhatt	Bhatt

Name & Signature of the Teacher

(Saurabh Naik)

HOD 28/3/2019

Dhempe College of Arts & Science

Miramar – Goa.

Academic Year : **2018 -19**

SHORT TERM COURCE ATTENDANCE SHEET

Name of the Course : _____

Class :-

Topic : _____

Batch:- _____

Roll no.	Name of Student	Lecture No. 11	12	13	14	15	16	17	18	19	20
	Date:-	12/01/19	19/01/19	02/02/19	09/02/16	16/02/19	23/02/19	02/03/19	09/03/19	16/03/19	23/03/19
	Time:-	2hrs	2hrs	2hrs	2hrs	2hrs	2hrs	2hrs	2hrs	2hrs	2hrs
17262	Narayan Borkalkar	NSB	NSB	NSB	NSB	NSB	NSB	NSB	NSB	NSB	NSB
17264	Santosh Brint										
17268	Shawn Valen Ferro	Ferro	Ferro	Ferro	Ferro	Ferro	Ferro	Ferro	Ferro	Ferro	Ferro
17274	Smita Malik	Small	Small	Small	Small	Small	Small	Small	Small	Small	Small
17276	Vibhav Picaulenkor										
17277	Provoder Shoill										
17278	Nihal Shahu										
17281	Seyur										
17282	Samiullah Byat										
17283	Tyas Lotlikar	Tyas	Tyas	Tyas	Tyas	Tyas	Tyas	Tyas	Tyas	Tyas	Tyas
17285	Apurva A. Patil	apatil	apatil	apatil	apatil	apatil	apatil	apatil	apatil	apatil	apatil
17287	Sweta Naik	Blaik	Blaik	Blaik	Blaik	Blaik	Blaik	Blaik	Blaik	Blaik	Blaik
17291	Fatema A. H	fah	fah	fah	fah	fah	fah	fah	fah	fah	fah

Name & Signature of the Teacher

(Saurabh Naik)

HOD

Dempo Charities Trust's
Dhempe College of Arts and Science
Panaji, Goa

Name of the Course: **Multimedia**

OpenShot is a free video editing app for Windows, Mac or Linux, which is a major advantage to entice any budding, but cash-strapped editor. The interface is pretty basic but offers everything you need from the standpoint of a video editing app. You can switch between the Simple and Advanced views depending on how much information you need to see on screen at any one time. On top of this, you can customise the interface to suit your needs.

Audacity is an incredible free, open source audio editor that's just as good as many premium paid-for applications. You can use it to make your own recordings, remove noise, cut and combine clips, apply special effects and much more, and achieve truly professional results.

The aim of this course is to provide an understanding of concepts in video and audio editing.

The student will be able to remember various features provided by Openshot and Audacity, choose necessary effects and create a movie/mix track.

No. of students: **13**
Fees: **Rs.1000/-**
Resource Person:**Mr. Saurabh Naik**
Co-ordinator: **Mr. Saurabh Naik**
Duration: (Dates) From **4/08/2018 to 23/03/2019 (40 contact hours**)
Attendance Record: Maintained/Not Maintained**Maintained**
Certificates: Issued/Not issued**Not Issued**
Proposal: Submitted/Not submitted**Submitted**
Student forms: Submitted/Not submitted**submitted**
Bills: Settled/Not settled**settled**