



## MALLA REDDY ENGINEERING COLLEGE

(Autonomous)

Maisammaguda(H), Gundlapochampally Village, Medchal  
Mandal, Medchal-Malkajgiri District, Telangana State – 500100

### CIRCULAR

Date: 27/11/2019

All the 3<sup>rd</sup> /II Sem Year students are hereby informed that the Malla Reddy Engineering College (Autonomous) is planning to organize Value Added Courses like IOT, Motion Control Robots, Multimedia – VFX, Green Matte Studio - Video Effects/Transitions, Green Matte Studio - Video Effects/Transitions, Advanced PYTHON in Centre Of Excellence. In this regard Interested students are hereby directed to register for this Courses on or before 02/12/2019. For further details, please contact Centre of Excellence, MREC(A)

  
**Principal**

**Malla Reddy Engineering College**  
**Maisammaguda, Dhulapally,**  
**(Post Via Kompally), Sec'bad-500100.**

#### Copy to;

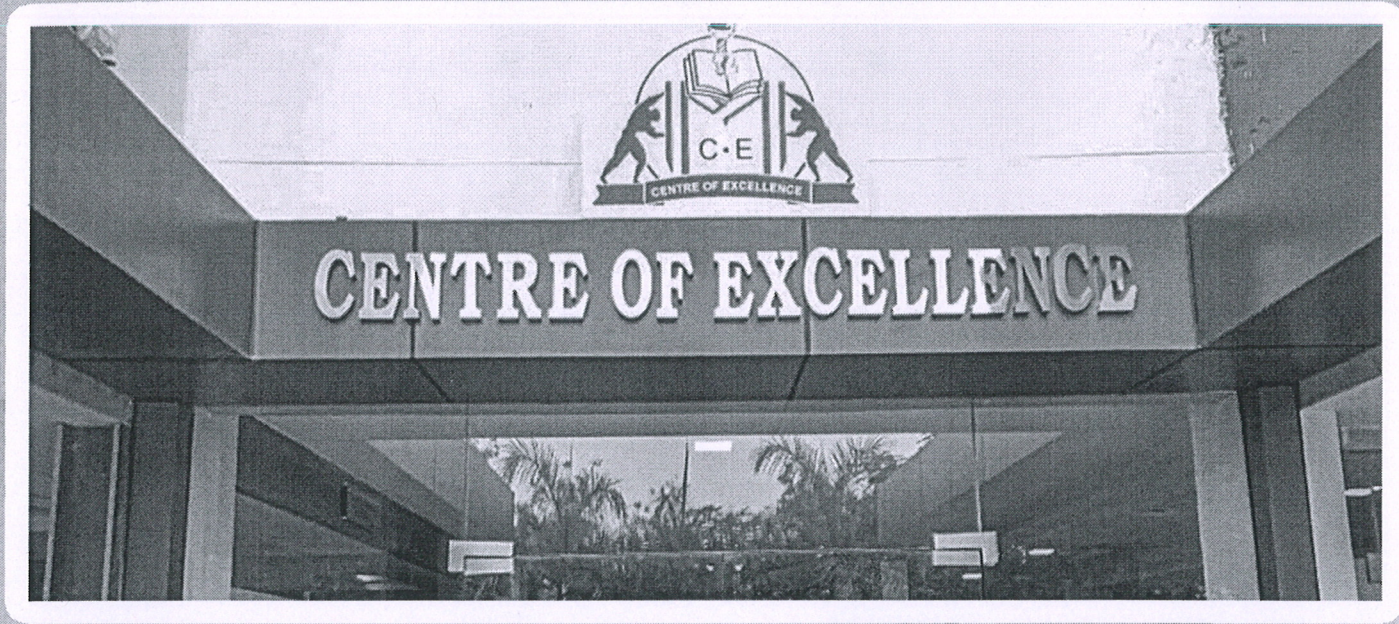
1. All HOD's-for information & circulation among staff
2. To be displayed in all notice board
3. Controller of Examination
4. Confidential Section Exam Branch
5. Group Admin Officer
6. Library
7. Physical Director-for necessary action
8. Security Officer-for necessary action
9. Transport Manager-for necessary action
10. TEQIP Coordinator & Academic Cell
11. Admin Office
12. System Admin
13. Placement Cell
14. PA to Principal for Filling



**MALLA REDDY ENGINEERING COLLEGE**

**MAIN CAMPUS, AUTONOMOUS INSTITUTION**

Maisammaguda, Dhulapally (Post) via Kompally,  
Secunderabad-500100 Medchal - Malkajgiri District Telangana, India



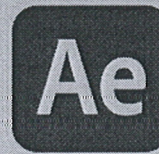
## MULTIMEDIA

Catalogue, Broucher, Bussiness Card, Flyer Design

Image Editing, Digital illustrator & Page Layout

Audio video editing, 2D Animation, 3D Animation  
Visual Effects

Photoshop, Coreldraw, illustrator & Indesign  
Premier pro, Adobe audition, Animate, Maya  
After effects



Course Duration -: 4 Months

**Learn Multimedia & Develop Your Skills.**

*Raveesh*

Malla Reddy Engineering College  
Maisammaguda, Dhulapally,  
(Post) Kompally, Secbad-500100

## SUMMARY

### Multimedia-VFX

VFX is a term that refers to the process of generating images from live action footage taken during filming. Visual effects is the process of combining real-world video with computer-generated imagery (CGI) to create scenarios that appear plausible but would be dangerous, expensive, impractical, tedious, or difficult to capture on film. The advent of cost-effective and simple-to-use computer software packages has made visual effects generated with the aid of software available to filmmakers.

Visual effects (VFX) is the process of creating or manipulating any on-screen imagery that does not exist physically in real life. Through the use of visual effects, filmmakers may create settings, objects, monsters, and even humans that would be impractical or impossible to capture in a live-action scene. In cinema, visual effects are typically created by fusing live-action footage with computer-generated images (CGI). Top visual effects firms employ VFX supervisors and teams of VFX artists, each with their particular area of expertise. The majority of visual effects fit into one of the following categories:

**CGI:** Computer-generated imagery is a catch-all word for digitally made visual effects in cinema and television. These computer images can be 2D or 3D, although CGI is frequently used to refer to 3D visual effects. The most often discussed technique in computer-generated imagery is 3D modeling—the process of creating a three-dimensional depiction of any item, surface, or live organism. The most obvious application of CGI visual effects is when artists utilise them to create something that does not exist, such as a dragon or monster. However, visual effects may also be subtle; VFX designers can utilise VFX to fill a baseball stadium with cheering people or digitally de-age an actor, as Robert De Niro did in Martin Scorsese's *The Irishman*.

**Compositing:** Also known as "chroma keying," compositing is the process by which visual effects artists mix visual components from disparate sources to create the illusion that they are in the same location. This visual effect approach requires recording with a green or blue screen, which is then replaced in post-production by compositors using compositing software. Matte paintings—illustrations of landscapes or sets that were composited with live-action footage—were an early kind of compositing that produced this look. The Emerald City landscape in *The Wizard of Oz* is a well-known example of a matte painting being utilised as an optical composite.

**Motion capture:** Often abbreviated as "mocap," motion capture is the technique of digitally recording and translating an actor's motions to a computer-generated three-dimensional model. When this technique involves the capture of an actor's facial expressions, it is frequently referred to as "performance capture." A typical way of motion capture is to have an actor wear a motion-capture suit that is covered in specific markers that a camera can track (or, in the case of performance capture, dots painted on the actor's face). The cameras' data is then translated onto a three-dimensional skeletal model using motion capture software.



MALLA REDDY ENGINEERING COLLEGE  
(Autonomous)  
Maisammaguda(H), Gundlapochampally Village,  
Medchal Mandal, Medchal-Malkajgiri District,  
Telangana State - 500100

Course:  
Multimedia -  
VFX

Date:02/12/2019  
to 28/03/2020

Registered Students

SL.No	Roll No	NAME	BRANCH
1.	17J41A01C8	B.Swapna	CE
2.	17J41A01E3	K.Sai Sujith	CE
3.	17J41A01C3	Avasarala Karthik	CE
4.	17J41A1229	MEDISHETTI SATHWIK	IT
5.	17J41A1232	MUNDRA NIHARIKA	IT
6.	17J41A1237	NUNE SAI KIRAN	IT
7.	17J41A1243	POOJA HOTKER	IT
8.	17J41A1253	SHIVAM ZANWAR	IT
9.	17J41A0226	KASIREDDY SAI HARSHITH REDDY	EEE
10.	17J41A0231	KUNCHALA DAYANANDAM	EEE
11.	17J41A0242	NANDEPU DEVSISH	EEE
12.	17J41A0254	TALLURI VEERA VENKATA SATYA GIRI PRATAP	EEE
13.	17J41A0258	YERRA VENKATA KAVYA	EEE
14.	17J41A03L9	KONDA SUMANTH	ME
15.	17J41A03M0	KONDRU HARRIE VINCENT	ME
16.	17J41A03M5	MADHADI SANVITH REDDY	ME
17.	17J41A03N0	MEDI SHIVA TEJA	ME
18.	17J41A03N6	NURSINGOJU MANOJ KUMAR	ME
19.	17J41A03M0	SHAIK MOHAMMAD RAFI	ME
20.	17J41A04E8	KANAPURAM SANDEEP REDDY	ECE
21.	17J41A04F0	KETAVATH RAHUL	ECE
22.	17J41A04F6	MANUPATI VIDYAVATHI	ECE
23.	17J41A04G2	PADAMATINTI PRAVEEN KUMAR	ECE
24.	17J41A04H3	TANYA SHREE	ECE
25.	17J41A05L9	MATTAPALLI JAGADEESH KRISHNA	CSE
26.	17J41A05M3	NAVRAJ SINGH	CSE
27.	17J41A05M7	PINNINTI AVINASH REDDY	CSE
28.	17J41A05N0	SABAVATH SAILAJA	CSE
29.	17J41A05N3	SANIYA SARA	CSE
30.	17J41A05P0	VADLAPUDI SRI VYSHNAVI	CSE

*Raunad*  
Principal  
Malla Reddy Engineering College  
Maisammaguda, Dhulapally,  
(Post Via Kompally), Sec'bad-500100



## SYLLABUS

	<b>MALLA REDDY ENGINEERING COLLEGE (Autonomous) CENTRE OF EXCELLENCE</b>	
<b>MULTIMEDIA - VFX</b>		

### **MODULE I**

Introduction to Visual effects, Difference between visual effects and special effects, Chroma key compositing - Principles of chroma key compositing, Pulling the matte using keyer. Despill operation to avoid spill contamination (hue operation), Garbage mattes to support keying, Colour correction and composite the foreground and background, Chroma shoot, Materials used for chroma screen, Lighting techniques for chroma shoot, Shooting the chroma. Advantages of video cameras with little compression (4:2:2, 4:4:4) for chroma shoots, motion tracking in chroma screen for camera movements

### **MODULE II**

Color correction and color grading: Primary and secondary color correction, Correcting and matching shots, Basic color grading, Colour balancing of elements, Vignettes

### **MODULE III**

Rotoscoping - Uses and advantages of rotoscoping, Creating rotos with splines, Hierarchical parent and child roto shapes, Interpolation technique, Keyframe rotos, Final inspection, Rotoscope motion blur and semi transparency

### **MODULE IV**

Tracking: Motion tracking, Motion stabilization, Mocha tracking, Camera tracking in After Effects, Set extensions, Problems faced during tracking, Time-stretching, time-remapping and time warp effects

### **MODULE V**

How to approach and plan a VFX shot? Other VFX applications - Morphing, Adding atmospheres, Crowd replication, Basics of stereo compositing. What is a Vfx breakdown?

*Ramesh*  
Principal  
Malla Reddy Engineering College  
Maisammaguda, Dhulapally,  
(Post Via Kompally), Sec'bad-500100



**MALLA REDDY ENGINEERING COLLEGE**  
MAIN CAMPUS, AUTONOMOUS INSTITUTION



**Certificate**  
**Of the Course Completion**


*This is to Certify that*

SABAVATH SAILAJA

*has Successfully Completed Multimedia Vfx*  
*Offered by Centre of Excellence, MREC(A) on 28/03/2020 bearing*  
*with Roll No. 17J41A05N0 and Branch CSE.*

  
Dr.N.Rishikanth  
COE Dean

  
Principal  
Malla Reddy Engineering College  
Mussanapeta, Dhulapally,  
(Post Via Kompally, Sec 10, 500100)

  
Dr.S.Sudhakara Reddy  
Conference Chair &Principal



**MALLA REDDY ENGINEERING COLLEGE**  
MAIN CAMPUS, AUTONOMOUS INSTITUTION



**Certificate**  
**Of the Course Completion**

*This is to Certify that*

**NUNE SAI KIRAN**

*has Successfully Completed Multimedia Vfx*  
Offered by Centre of Excellence, MREC(A) on 28/03/2020 bearing  
with Roll No. 17J41A1237 and Branch IT.

**Dr.N.Rishikanth**  
COE Dean

Principal  
Malla Reddy Engineering College  
Walsammaguda, Dhulapally,  
(Post Via Kompally), Sec: 4ad-500100

**Dr.S.Sudhakara Reddy**  
Conference Chair &Principal



**MALLA REDDY ENGINEERING COLLEGE**  
MAIN CAMPUS, AUTONOMOUS INSTITUTION



**Certificate**  
**Of the Course Completion**


*This is to Certify that*

**MEDI SHIVA TEJA**

*has Successfully Completed Multimedia Vfx*  
*Offered by Centre of Excellence, MREC(A) on 28/03/2020 bearing*  
*with Roll No. 17J41A03N0 and Branch ME.*

  
**Dr.N.Rishikanth**  
COE Dean

*Ravenu*  
Principal  
Malla Reddy Engineering College  
Mansamaguda, Dhulapally,  
(Post: V. Kompally), Sec'bad-500100

  
**Dr.S.Sudhakar Reddy**  
Conference Chair &Principal





**MALLA REDDY ENGINEERING COLLEGE**  
MAIN CAMPUS, AUTONOMOUS INSTITUTION



**Certificate**  
**Of the Course Completion**

*This is to Certify that*

**MANUPATI VIDYAVATHI**

*has Successfully Completed Multimedia Vfx*  
*Offered by Centre of Excellence, MREC(A) on 28/03/2020 bearing*  
*with Roll No. 17J41A04F6 and Branch ECE.*

**Dr.N.Rishikanth**  
COE Dean

**Principal**  
**Malla Reddy Engineering College**  
**Matsammaguda, Dhulapally,**  
**(Post Via Kothapally), Sarabhadra-500100**

**Dr.S.Sudhakara Reddy**  
Conference Chair &Principal



**MALLA REDDY ENGINEERING COLLEGE**  
MAIN CAMPUS, AUTONOMOUS INSTITUTION



**Certificate**  
**Of the Course Completion**

*This is to Certify that*

**Avasarala Karthik**

*has Successfully Completed Multimedia Vfx*  
Offered by Centre of Excellence, MREC(A) on 28/03/2020 bearing  
with Roll No. 17J41A01C3 and Branch CE.

**Dr.N.Rishikanth**  
COE Dean

**Principal**  
Malla Reddy Engineering College  
Wairamanguda, Dhulapally,  
(Post Via Kalyandurg) - 506160

**Dr.S.Sudhakara Reddy**  
Conference Chair &Principal