

**B.Sc. in Graphics, Animation and Gaming**  
**Syllabus**

(w.e.f 2012-13)

**Duration:** Three year  
**Eligibility:** 10+2 in any discipline

**Institute of Mass Communication and Media Technology**

**Kurukshetra University**

**Kurukshetra**

**B.Sc. in Graphics, Animation and Gaming**  
**Scheme of Examination (w.e.f. session 2012-13)**

**Semester I**

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Paper 01	Science of communication	80		20 =	100
Paper 02	Communicative Hindi	80		20 =	100
Paper 03	Social science	80		20 =	100
Paper 04	Fundamentals and Appreciation of art	80		20 =	100
Paper 05	Drawing I (Practical)	80		20 =	100

**Semester II**

Paper-06	Photoshop, Coral Draw & Quark XPress	50	30	20=	100
<b>Paper-07</b>	Communicative English	80	-	20 =	100 (Amended w.e.f 2012-13)
Paper-08	Social science-II	80	-	20 =	100
Paper-09	Television graphics	50	30	20 =	100
Paper-10	Drawing -II (Practical)	80	-	20 =	100

**Semester III**

Paper-11	Life Study	80		20 =	100
Paper-12	Animation technology	50	30	20 =	100
Paper-13	Video editing	50	30	20 =	100
Paper-14	2D Animation: Flash and Adobe After Effects	50	30	20 =	100
Paper-15	Sound editing (Practical)	50	30	20 =	100

**Semester IV**

Paper-16	Composition	80		-20=	100
Paper-17	Gaming technology	80		- 20 =	100
Paper-18	Script writing	50	30	20 =	100
Paper-19	3D Animation: 3D Max	80		20 =	100
Paper-20	Gaming (Practical)	80		20 =	100

**Semester V**

Paper-21	2D Animation Production	80	-	20 = 100
Paper-22	3D Animation production- Maya	80	-	20 = 100
Paper-23	Gaming production	80		20 = 100
Paper-24	Sound and visual effects	50	30	20 = 100
Paper-25	Graphics production (Practical)	80		20 = 100

**Semester VI**

Paper-26	Production: 2 D Animation	80 (project)-20 = 100
Paper-27	Production: 3 D Animation	80 (project)-20 = 100
Paper-28	Production : 2D + 3D special Effects + Game	80(project)-20 = 100
Paper-29	Internship	100
Paper-30	Internship report	100

Paper-01 (First Semester)  
**Science of Communication**

Time: 3 Hrs.  
Total Marks: 80

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks. Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

**Unit I**

Evolution of social groups and organic structure of society  
Essentiality of communication in social groups  
Concept, definitions and elements of human communication  
Functions of communication  
Socialization and role of communication in socialization

**Unit II**

Intrapersonal communication  
Interpersonal communication  
Group communication  
Public communication  
Mass communication

**Unit III**

Verbal communication  
Non-verbal communication  
Oral communication  
Written communication

**Unit IV**

Visual communication  
Signs, symbols and code systems  
Communication skills  
Dress codes, mannerism, accent and etiquettes  
Listening- importance and art of developing listening habits

Paper-02 (First Semester)  
**Communicative Hindi**

Time: 3 Hrs.  
Total Marks: 80

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks. Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

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Paper-03 (First Semester)  
**Social Science-I**

Time: 3 Hrs.  
Total Marks: 80

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks. Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

**Unit I**

Concept, definitions and importance of sociology  
Relation of sociology with other social sciences  
Group-community-institution-organisation-society-humanity-biosphere and their unity and inter-dependence  
Meaning of family, kinship, class, caste, clan, tribe, marriage

**Unit II**

Concept of socialization, social stratification  
Concept, definitions and process of social change  
Understanding of contemporary changes in India  
Characteristics of Indian culture

**Unit III**

Concept, definitions and importance of psychology  
Relation of psychology with other social sciences  
Importance of studying psychology for media students  
Psychology of social groups

**Unit IV**

Elements and process of human behavior  
Theory of information  
Opinion and attitude formation

Paper-04 (First Semester)  
**Fundamentals and appreciation of art**

Time: 3 Hrs.

Total Marks: 80

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks. Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

**Unit I**

Art: meaning, scope and importance

Brief history of Indian art traditions (from prehistory to 1850 AD)

**Unit II**

Element of art: Line, form, colour (colour theory) texture, tone, space

Principle of art: Unity, rhythm, harmony, balance, perspective, proportion

**Unit III**

Graphics: meaning, scope and importance

The art of calligraphy and typography

Use of graphics in modern world

**Unit IV**

Design: meaning and types of design

Relationship between art and aesthetic

The *Shadaang* in Indian Art

Paper-05 (First Semester)  
**Drawing-I (Practical)**

Time: 3 Hrs.  
Total Marks: 80

There will be a practical examination in this paper along with semester examination. External examiner will evaluate the skills of the students in the field of drawing. Examiner will give on-the-spot assignments/tasks to the students. Besides this a viva voce (oral examination) of each student one by one will also be taken by the examiner for testing the knowledge of the students.

**Size of Paper** : Quarter sheet  
**Medium** : Pencil

**Unit-I**

Free hand sketching from real objects:  
building, vehicles, chair, table, trees etc.  
Preparing colour charts  
Kind of Design- 2 D & 3 D Design

Total assignments -10

**Unit-II**

Still life with drapery (object drawing)  
(Study of non living objects)

Total assignments -5

**Unit-III**

Landscape on the spot & landscape form Memory  
(Hills, Trees, Hut, Rivers etc.)

Total assignments -5

**Unit-IV**

Head study: male, female, children, old person

Total assignments -5

Paper-06 (Second Semester)  
**Photoshop, Coral Draw & QuarkXPress**

Time: 3 Hrs.

Total Marks: 50

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks. Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

**Unit-I**

Introduction to the origin of computer  
Main input and output devices  
Introduction to MS Office  
Introduction to internet

**Unit-II**

Photoshop's Environment  
Image Size and Resolution  
Main editing tools  
Layers facilities  
Various filters and effects  
Working with text, colour and image

**Unit-III**

Main tools of Corel DRAW  
Shape panel, drawing panel, drawing panel, basic shapes  
Selecting and Manipulating Objects  
Drawing and Shaping Objects  
Using of color and text  
Outlining and filling objects  
Using symbols and clipart  
Creating Output, exporting drawings, printing

**Unit-IV**

Workspace of Quark Express, main editing tools  
Using type: various font, size and style  
Leading, paragraph and indents, hyphenation and alignment  
Text wrapping, using images, use of colours  
Polygon setting, rounded corner, utilities, indexing

Paper-07 (Second Semester)  
**Communicative English**

Time: 3 Hrs.  
Total Marks: 80

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks. "Student have to answer question in English except where explicitly asked by the examiner in any question to answer in Hindi as in the case of translation etc."

**Unit-I**

Growth and development of English language  
Introduction to written and spoken English  
Different types of spoken English - British, American and Indian

**Unit-II**

Usage of dictionary and thesaurus  
Diction - words meaning and usage  
Spelling rules, verb patterns, Idioms and phrases  
Syntax - different types of sentence formation  
Basic sentence formation

**Unit-III**

Common errors in spellings and sentences  
Human organs of articulation  
Main problems in pronunciation

**Unit-IV**

Voice analysis  
Pitch and tempo for effective presentation  
Exercising right pronunciation of difficult words

Paper-08 (Second Semester)  
**Social Science-II**

Time: 3 Hrs.

Total Marks: 80

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks.

Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

**Unit I**

Concept, definitions and importance of political science  
Relations of political Science with other social sciences  
Concepts of power and authority  
Basic elements of Indian constitution

**Unit II**

Concepts of: Rights, liberty, equality, justice, duties and obligations  
Nation, state, government  
Capitalism, communism, cultural nationalism, socialism, *Gandhism*

**Unit III**

Concept, definitions and importance of economics  
Relations of economics with other social sciences  
Introduction to Indian economy

**Unit IV**

Market, Principles of demand and supply  
Consumer behavior  
Concept of globalization, liberalization, *swadeshi*,  
Rural development

Paper-09 (Second Semester)  
**Television Graphics**

Time: 3 Hrs.

Total Marks: 50

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks.

Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

**Unit I**

Origin and functioning of camera

Types of still camera: compact and SLR camera,

Parts of still camera: aperture, shutter speed, lens, filters and flash

**Unit II**

Basic components of video camera

Basic shots and shot composition

Camera angles and movements

Camera mountings

**Unit III**

Graphics: meaning, forms and usage

Key elements of graphics: colour, text, visual, music and composition

Making graphics with computer

**Unit IV**

Use of graphics in television

Types of television news graphics: logo, crawler, super, mug plate, text plate, title, montage, credits etc.

Making television graphics

Paper-10 (Second Semester)  
**Drawing-II (Practical)**

Time: 3 Hrs.  
Total Marks: 80

There will be a practical examination in this paper along with semester examination. External examiner will evaluate the proficiency of the students in the subject related drawings. Examiner will give on-the-spot assignments/tasks to the students. Besides this a viva voce (oral examination) of each student one by one will also be taken by the examiner for testing the knowledge of the students.

Size of Paper: Quarter sheet  
Medium: Poster colour

**Unit I**

Calligraphy and Typography- designing and working with various fonts  
Designing innovative logos and creative monograms

**Unit II**

Designing letter heads and visiting cards  
Designing book covers and folders

**Unit III**

Layout designing of newspaper  
Layout designing of magazines  
Making print advertisements

**Unit IV**

Poster making on various themes  
Designing of hoarding making

Paper-11(Third Semester)

## **Life Study**

Time: 3 Hrs.

Total Marks of practical: 80

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Each unit will carry equal marks. Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

**Size of Paper** :Half sheet

**Medium** : Pencil

### **Unit – I**

Study of head in real life

Total assignment-5

Specific study of eyes, nose, mouth, ears, hairs and facial expressions

### **Unit – II**

Study of full figure of male and female-adult and old aged persons Total assignments -5

Study of various body postures and movements

Sketching bodies of baby boy and girl

### **Unit – III**

Study of various birds ( in detail)

Total assignments- 5 each

Study of various animals

### **Unit – IV**

Developing characters for animation

Total assignments- 5 each

Preparing a profile of innovative characters

Making a portfolio containing various animation characters

Paper-12(Third Semester)  
**Animation technology**

Time: 3 Hrs.

Total Marks: 50

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks.

Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

**Unit I**  
**(Total Assignments -5)**

Animation: origin and growth  
Basic principle of animation  
Animation: meaning, definition and types

**Unit II**  
**(Total Assignments -5)**

Main elements of animation Role  
of computers in animation  
Computer language for animation

**Unit III**  
**(Total Assignments -5)**

Basic computer graphics algorithm  
2D and 3D coordinated system  
Reflection and rotation matrix

**Unit IV**  
**(Total Assignments -5)**

Motion control  
Transparency, texture, shadow and anti hashing  
Automatic motion control: mechanics, robotics, kinematics

Paper-13(Third Semester)

**Video editing**

Time: 3 Hrs.

Total Marks: 50

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks.

Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

**Unit I**

Non-linear editing: meaning and process

Hardware requirements for NLE

Connecting editing equipment

Creating time line

**Unit II**

Cut, fade, mix and wipe

Main tools of editing - Selection, Range Select, Rolling, Edit, Razor, Hand Tool, Cross fade, In point, Zoom tools etc.

**Unit III**

Video transitions Titling  
and graphics Rendering  
and authoring

**Unit IV**

Introduction to editing aesthetics

Introduction to **Adobe Premiere**

Introduction to **Final Cut Pro**

Paper-14(Third Semester)

## **2D Animation: Flash and Adobe After Effects**

Time: 3 Hrs.

Total Marks: 50

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks.

Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

### **Unit I**

Flash Editor, Panels, Timeline, Tools, Saving & Uploading Files  
More Tools, Utilities, Grouping, Arranging  
Graphic Symbols, Alignment, Libraries, Layers

### **Unit II**

Keyframes, Frame by Frame Animation, Onion Skins, Frame Rate  
Motion Tweening, Stop Action, Rotate & Spin, Info Panel, Movie Explorer, Shape Tweening  
Button Symbols, Action, Adding Sound to Buttons, Publishing and Exporting

### **Unit III**

Introduction to Adobe After Effects  
Compositions  
Masking and Transparency

### **Unit IV**

Animating Layers  
Video and Audio Effects  
Managing Layer  
Rendering and getting output

Paper-15(Third Semester)

## **Sound editing**

Time: 3 Hrs.

Total Marks: 50

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks.

Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

### **Unit I**

Nature of digital sound

Meaning of Mono, Stereo and surround sound

Various formats of digital sound

### **Unit II**

Editing tools: Cut, cross fade, mix

Process of equalization

Applying effects to sound

### **Unit III**

Introduction to audio console

Audio Mixing

Getting output

### **Unit IV**

Introduction to sound aesthetics

Introduction to **Sound Forge**

Introduction to **Nuendo**

Paper-16(Fourth Semester)

## **Composition**

Time: 5 Hrs.

Total Marks: 80

There will be a practical examination in this paper. External examiner will evaluate the proficiency of the students in the composition. Examiner will give on-the-spot assignments/tasks to the students.

Size of Paper: Half sheet

Medium: Pencil and color

### **Unit I**

**(Total assignment-5)**

The meaning and types of composition

Importance of composition in design

Basic rules of composition

Role of colours in composition

### **Unit II**

**(Total assignment-5)**

Introduction to human figure

Ideal proportion in parts of human body

Composition of animals and birds

### **Unit III**

**(Total assignment-5)**

Composition of landscapes

Rural and urban habitation

Poor and rich habitation

Farms, roads, mountains, rivers, seas etc.

### **Unit IV**

**(Total assignment-5)**

Drawing compositions of various objects for animation

Making compositions of various landscapes for animation

Paper-17 (Fourth Semester)

## **Gaming technology**

Time: 3 Hrs.

Total Marks: 80

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks.

Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

### **Unit I**

Origin and growth of gaming industry  
Gaming: meaning and defining  
Gaming as modern entertainment

### **Unit II**

Classification of gaming  
Game production cycle  
Pre production – concept and idea  
Production requirements and planning

### **Unit III**

Production – plan implementation,  
Tracking progress and plan testing  
Post production – archive and plan for future games

### **Unit IV**

Structure and functioning of gaming company:  
Production, art, engineering, designing,  
Quality assurance testing  
Game production team members and responsibilities

Paper-18 (Fourth Semester)

**Script writing**

Time: 3 Hrs.

Total Marks: 50

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks.

Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

**Unit I**

Script: concept, forms and utility  
Basic principles of writing a script  
Process of writing script

**Unit II**

Writing script for still photo feature  
Hindi and English for children and adult

**Unit III**

Writing script for video programmes  
Hindi and English for children and adult

**Unit IV**

Writing script for animated children programmes  
Hindi and English for dubbing of cartoon programmes

Paper-19 (Fourth Semester)  
**3D Animation: 3-D Max**

Time: 3 Hrs.

Total Marks: 80

Question paper for each theory paper will have two questions from each of the four units. Student will be required to answer any one question from each unit. Unit V of the question paper will have six questions out of which the student will be required to answer any four questions. Each unit will carry equal marks.

Students have the option to answer some questions in Hindi and others in English but within an answer to a question the language should be pure (not bilingual) and correct.

**Unit I**

Modeling objects

Main tools of animation

3D workspace, controlling the view ports

Primitive objects: cubes, cylinders, spheres, planes and torus

**Unit II**

Colour, texture and surface styles

Modeling with polygons

Re-sizing objects

Reflections, rotations and scaling

Splitting polygons

Revolving surface

Creating hair

**Unit III**

Camera coordinate system

Virtual camera movement

Camera types, focal length, field of view,

Dolling, zooming, crabbing and panning

**Unit IV**

Shading textures

Lighting techniques

Rendering techniques

Creating shadow

Blurring the background

Designing scene frame

Motion path

Changing timing

Paper-20 (Fourth Semester)

**Gaming (Practical)**

Time: 3 Hrs.

Total Marks: 80

There will be a practical examination in this paper. External examiner will evaluate the proficiency of the students in the gaming software. Examiner will give on-the-spot assignments/tasks to the students. Besides this a viva voce (oral examination) of each student one by one will also be taken by the examiner for testing the knowledge of the students.

**Unit I**

Generating innovative ideas for gaming  
Preparing proposal for the new game  
Creating new game characters  
Designing various levels of game

**Unit II**

Working on a gaming project  
Drawing the work flow chart  
Designing and choosing background  
Working on the gaming software

**Unit III**

Voice over: planning, choosing studio, casting actors,  
Recording voice over  
Music selection for background  
Working with a music composer

**Unit IV**

Case study of five popular video games  
Watching, playing, comparing and analyzing video games

Paper-21 (Fifth Semester)  
**2D Animation Production**

Time: 3 Hrs.

Total Marks: 80

There will be a practical examination in this paper along with semester examination. External examiner will evaluate the proficiency of the students in the animation software. Examiner will give on-the-spot assignments/tasks to the students. Besides this a viva voce (oral examination) of each student one by one will also be taken by the examiner for testing the knowledge of the students.

**Unit-I**

2D workspace  
Character development  
Model sheet creation

**Unit-II**

Cartoon animation  
How to draw expressions  
Lip synchronization  
Exposure to theatre

**Unit-III**

2D animation for web and broadcast  
Doing and recording voice over  
Music selection for background  
Working with a music composer

**Unit-IV**

Producing 2D animated advertisement  
Producing 2D animated presentation  
Producing 2D animated portfolio

Paper-22 (Fifth Semester)  
**3D Animation Production-MAYA**

Time: 3 Hrs.  
Total Marks: 80

There will be a practical examination in this paper along with semester examination. External examiner will evaluate the proficiency of the students in the animation software. Examiner will give on-the-spot assignments/tasks to the students. Besides this a viva voce (oral examination) of each student one by one will also be taken by the examiner for testing the knowledge of the students.

**Unit-I**

The MAYA user interface  
Working in 3D space  
Polygonal modeling  
Key frames and motion paths

**Unit-II**

Creating Forward Kinematics (FK)  
Creating Inverse Kinematics (IK)  
Surface deformations  
Applying camera and lights

**Unit-III**

Shedders and texture  
Rendering techniques  
Particles and dynamics  
Inorganic 3D modeling

**Unit-IV**

Working with brush  
Visual effects: fire, smoke, lightening, shattering, fireworks  
Fluid effects: 3D & 2D container,  
MAYA Cloth and Fur

Paper-23 (Fifth Semester)  
**Gaming Production**

Time: 3 Hrs.  
Total Marks: 80

There will be a practical examination in this paper along with semester examination. External examiner will evaluate the proficiency of the students in the gaming software. Examiner will give on-the-spot assignments/tasks to the students. Besides this a viva voce (oral examination) of each student one by one will also be taken by the examiner for testing the knowledge of the students.

**Unit-I**

Motion capture  
Planning and working with motion capture studio  
Testing of game  
Test schedule, plan and cycle

**Unit-II**

Determining code release  
Conducting a postmortem of game  
Purpose and use of postmortem  
Managing developer-publisher relationship

**Unit-III**

Hiring and retaining talent  
Marketing of gaming  
Packaging and demos

**Unit-IV**

Legal aspects of game production  
Laws relating to game production  
Provisions regarding obscenity and

Paper-24 (Fifth Semester)  
**Sound and Visual Effects**

Time: 3 Hrs.  
Total Marks: 50

There will be a practical examination in this paper along with semester examination. External examiner will evaluate the proficiency of the students in the audio software. Examiner will give on-the-spot assignments/tasks to the students. Besides this a viva voce (oral examination) of each student one by one will also be taken by the examiner for testing the knowledge of the students.

**Unit-I**

Fundamentals of graphic communication  
Basic principles of design  
History of digital graphics

**Unit-II**

Types of special effects: particle system, masking, keying, colour range, text effects, CG effects  
Usage of sound and visual effects  
Principles and techniques of VFX  
Sound synchronization  
Camera tracking

**Unit-III**

Portfolio generation  
Producing special effects using Adobe After Effects  
Producing special effects using Combustion

**Unit-IV**

Case study of popular sound and visual effects  
Appreciating sound and visual effects used in various films

Paper-25 (Fifth Semester)  
**Graphics Production (Practical)**

Time: 3 Hrs.  
Total Marks: 80

There will be a practical examination in this paper along with semester examination. External examiner will evaluate the proficiency of the students in the graphics software. Examiner will give on-the-spot assignments/tasks to the students. Besides this a viva voce (oral examination) of each student one by one will also be taken by the examiner for testing the knowledge of the students.

**Unit-I**

Translating ideas into meaningful messages  
Transforming messages into design, product, identity and image  
Conceptual thinking and problem solving in design development

**Unit-II**

Developing visualization skills for graphics designers  
Photography for graphic design: subject, concept development, contrast, composition, meaning, cropping, lighting, emotional impact and message

**Unit-III**

Development of identities  
Making logos and trademarks as desired image  
Using the craft of typography for various graphic designs

**Unit-IV**

Making digital graphics using various computer software  
Preparing digital portfolio for industry  
Using graphics for packaging design

Paper-26 (Sixth Semester)  
**Production: 2D Animation**

Total Marks: 80

**Concept**

The main idea behind this project is to give an opportunity to the students to work on a project from concept to final output themselves and to ensure the practical aspect during the training. This project is supposed to ensure skill based training in the campus.

**Introduction**

Each student shall be supposed to complete a project during last semester. This project will be related to the content taught in other modules.

**Process**

Each student will be assigned an idea to develop into a small project. Students are supposed to complete their project work under the supervision of the concerned teacher. S/he will propose a subject/idea with all production planning to the teacher and start working on that only after due approval of the supervisor.

**Program format:**

‰ Story based short film in Flash

**Evaluation**

In the end of the year external expert will evaluate the project. The producer of the project is to provide the synopsis to the experts in written. The synopsis will have all details about the concept/idea, treatment, planning, production process, script, and name of the team members. The production will be screened before the experts to be appointed by the Director of the Institute and the concerned student will be asked questions regarding her/his production. This may be a kind of viva-voce.

Paper-27 (Sixth Semester)  
**Production: 3D Animation**

Total Marks: 80

**Concept**

The main idea behind this project is to give an opportunity to the students to work on a project from concept to final output themselves and to ensure the practical aspect during the training. This project is supposed to ensure skill based training in the campus.

**Introduction**

Each student shall be supposed to complete a project during last semester. This project will be related to the content taught in other modules.

**Process**

Each student will be assigned an idea to develop into a small project. Students are supposed to complete their project work under the supervision of the concerned teacher. S/he will propose a subject/idea with all production planning to the teacher and start working on that only after due approval of the supervisor.

**Program formats:**

• Story based short film in 3D Max

**Evaluation**

In the end of the year external expert will evaluate the project. The producer of the project is to provide the synopsis to the experts in written. The synopsis will have all details about the concept/idea, treatment, planning, production process, script, and name of the team members. The production will be screened before the expert to be appointed by the Director of the Institute and the concerned student will be asked questions regarding her/his production. This may be a kind of viva-voce.

Paper-28 (Sixth Semester)  
**Production: 2D+3D Special Effects and Game**

Total Marks: 80

**Concept**

The main idea behind this project is to give an opportunity to the students to work on a project from concept to final output themselves and to ensure the practical aspect during the training. This project is supposed to ensure skill based training in the campus.

**Introduction**

Each student shall be supposed to complete a project during last semester. This project will be related to the content taught in other modules.

**Process**

Each student will be assigned an idea to develop into a small project. Students are supposed to complete their project work under the supervision of the concerned teacher. S/he will propose a subject/idea with all production planning to the teacher and start working on that only after due approval of the supervisor.

**Program formats:**

‰ Development of 2D game (Flash based)

**Evaluation**

In the end of the year external expert will evaluate the project. The producer of the project is to provide the synopsis to the experts in written. The synopsis will have all details about the concept/idea, treatment, planning, production process, script, and name of the team members. The production will be screened before the expert to be appointed by the Director of the Institute and the concerned student will be asked questions regarding her/his production. This may be a kind of viva-voce.

## **Internship**

Total Marks: 100

### **Rationale**

The main idea behind internship/training/apprenticeship is to provide an opportunity to the students to have hands-on-experience being a team member of a graphics/animation/gaming project in a real life industry environment so that s/he could achieve a minimum level of confidence in production skills required in the beginning of a career

### **Introduction**

Each student shall be supposed to complete an internship/training /apprenticeship during the last semester of the course. This will be arranged by the institute or student in consultation with the teacher concerned.

### **Process**

Each student will complete his/her three months internship/training/ apprenticeship in a national or international company/ institution/ any other organization which is actively engaged in the production of graphics, animation and gaming. The final approval regarding the selected companies/institute/ organization will be given by the Director of the Institute of Mass Communication and Media Technology.

### **Evaluation**

During the internship/training/apprenticeship students will work under a supervisor to be decided by the production house. In the end of the training supervisor will evaluate the student on the basis of followings:

- Punctuality in completing assignments
- Participation in project work
- General behavior during training
- Ability to work as a team member
- Learning abilities and work performance

In the end of training, supervisor will provide a certificate to the student indicating the marks obtained by the student. And a copy of the certificate will be sent to the Director of the institute also.

## **Internship Report**

Total Marks: 100

### **Rationale**

The main idea behind internship/training/apprenticeship report is to document the experiences of students being a team member of a graphics/animation/gaming project in a real life industry environment so that s/he could learn to recognize all minor intricacies of production work. Moreover s/he can produce and refer back to the report as and when it is needed. Nonetheless it would be helpful to authenticate the internship/training/apprenticeship s/he has completed.

### **Introduction**

Each student shall be supposed to prepare an internship/training /apprenticeship report during the last semester of the course. This report will be prepared in accordance with the format provided by the institute. Report should be printed both side with hard bound. Report should contain minimum 50 pages of text, graphics, visuals etc.

### **Process**

Each student will write his/her report according to the following format:

- Idea/concept of the project
- Treatment of the project
- Technical equipment used
- Workflow of the project
- Contribution of the student
- Main observations during the training
- Key points of learning

### **Evaluation**

During the internship/training/apprenticeship students will work under a supervisor to be decided by the production house. In the end of the training, supervisor will sign the report. As soon the training ends student will submit two copies of the report in the institute. The evaluation of the report will be done by the external expert to be decided by the Director of the institute. Apart from evaluation of report, external examiner will conduct a viva-voce for judging the knowledge of student.