



மனோன்மணியம் சுந்தரனார் பல்கலைக்கழகம்

**MANONMANIAM SUNDARANAR UNIVERSI**

**SYLLABUS FOR DIPLOMA IN DIGITAL CINEMATOGRAPHY  
PROGRAM OFFERED THROUGH DIRECTORATE OF VOCATIONAL  
EDUCATION (COMMUNITY COLLEGES AND VOCATIONAL SKILL  
DEVELOPMENT CENTRES) FROM 2019 - 2020**



கல்விசார் நிலைக்குழுக் கூட்டம்

**MEETING OF THE STANDING COMMITTEE ON  
ACADEMIC AFFAIRS HELD ON WEDNESDAY  
THE 22<sup>nd</sup> JANUARY 2020**

**DIPLOMA IN DIGITAL CINEMATOGRAPHY**

இலக்கமுறை ஒளிப்பதிவு பட்டயம்

**SCHEME OF EXAMINATION**

Subject Code	Title of the Courses	Credit	Hours	Passing Minimum
<b>Semester I</b>				
C19CG11/E19CG01	History of Cinema & Film Appreciation	6	90	40/100
C19CG12/E19CG02	Introduction to Basics of Photography & Cinematography	6	90	40/100
C19CG13/E19CG03	Introduction to Lighting	6	90	40/100
C19CE10/E19CE10	Communicative English	6	90	40/100
C19CGP1/E19CGP1	Practical I-Lighting	4	120	40/100
<b>Semester II</b>				
C19CG21/E19CG04	Advanced Cinematography	6	90	40/100
C19CGP2/E19CGP2	Practical II-Cinema Cameras Operation	6	120	40/100
C19LS23/E19LS05	Life Skill	6	90	40/100
C19CGP3/E19CGP3	Practical III-Digital Film Production	4	120	40/100
C19CGPW/E19CGPW	Project Work-Major Project and Viva – Voce (Short film)	10	150	40/100

**Eligibility for admission:** Pass in 10<sup>th</sup> std examination conducted by the Govt. of Tamil Nadu Board of Secondary Education, Government of Tamil Nadu or any other equivalent examination.

**Examination:** Passing Minimum for each Course is 40%. Classification will be done on the basis percentage marks of the total marks obtained in all the Courses and as given below:

- |                         |                |
|-------------------------|----------------|
| 40 % but less than 50 % | - Third class  |
| 50 % but less than 60 % | - Second class |
| 60 % and above          | - First class  |

**Theory Paper**

Internal Marks-25

External Marks-75

## Syllabus

### Semester I

- Course I - History of Cinema & Film Appreciation
- Course II - Introduction to Basics of  
Photography & Cinematography
- Course III - Introduction to Lighting
- Course IV - Communicative English
- Course V - Practical I-Lighting

### Semester II

- Course VI - Advanced Cinematography
- Course VII - Practical II-Cinema Cameras Operation
- Course VIII - Life Skill
- Course IX - Practical III-Digital Film Production
- Course X - Project Work - Major Project and Viva – Voce  
(Short film)

**\*(Semester Pattern for Community College Only)**

### Program Objectives

This course is designed

- (a) to inculcate knowledge into the students about films, film-making and film-makers, by exposing them to the History of Cinema
- (b) to equip the students to understand fundamentals of Photography and Cinematography and different light bulbs and fixtures;
- (c) to equip students to know modern Digital Cinema Cameras and its functionalities
- (d) to equip students to apply aesthetic principles of colour and composition to shot, scene or sequence in video
- (e) to enable the students to practice the panning and tilting of camera for different operational speeds.

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**Semester I  
COURSE I**

**(C19CG11/E19CG01)HISTORY OF CINEMA & FILM APPRECIATION**

**OBJECTIVES**

- To make the students to know the evolution of cinema
- To make the students more knowledgeable about the History of Cinema (International, National & Regional)
- To make the students well-equipped with more knowledge about History of Cinema.
- To make the students understand what is a film and to make the students more knowledgeable about Film Appreciation.

**UNIT I**

**18 Hrs**

Introduction to Cinema – What is Cinema – Definitions – Visual medium – Popular Art Form – What is Film Appreciation? Why it is necessary? - How to raise our level of Film Appreciation? Elements of Cinema – 3 Sectors of Film Industry – 3 Fundamental Structures in every film (Visual, Audio, and Editing) – 3 Stages in Film-making (Pre-Production, Production, Post-Production)

**UNIT II**

**18Hrs**

Different ‘Genres’ of films 1) Fictional films and 2) Non-Fictional films Analysis. History of Cinema – International, National & Regional – Origin & Development – From Puppetry to Still Photography – Invention of Movie-Camera – Thomas Alva Edison and his ‘Kinetoscope Films’

**UNIT III**

**18 Hrs**

Projection of 10 ‘Actualities’ by Lumiere Brothers on 28.12.1895 at Paris – George Melies & his short Films – ‘Trip to the Moon’ – Edwin S. Porter and his ‘Great Train Robbery’ – D.W.Griffith and his 400 ‘One-Reelers’ Early Silent films in other Countries – Germany, France, Soviet Union – Soviet Montage – Sergei Eisenstein.

**UNIT IV**

**18 Hrs**

Silent Film history of India – Pioneers – D.G.Phalke and his “Raja Harischandra” – “Keechakavadham “ by Nataraja Mudaliar and other Silent films of India. - ‘Touring Cinema’ concept by Swamikannu Vincent – Growth of Exhibition Sector – Studio System in Hollywood and in India. Arrival of Talkies - Research and Development – “Jazz singer” , “Alam Ara” , “Kalidhas” – Early talkies of India , especially in Tamil – Talkies in other Countries – Italian ‘Neo – Realism’ and “French New Wave” – Orson Welles – Akira Kurosawa.

**UNIT V**

**18 Hrs**

Satyajit Ray and his Bengali Films – Marathi/Hindi Films by V.Shantharam – Hindi Films by Raj Kapoor and Gurudutt. Early Talkies in Tamil – Songs-Oriented films – Dialogue – Oriented - Films by K.Subramaniam, T.R.Sundaram, Gemini Vasan, AVM Studios – Films of Krishnan-Panchu, Sridhar, K.Bheemsingh, K.Balachander, Bharathiraja, J.Mahendran, K.Bhagyaraj, Manirathinam, - Digital film making – Current Trends in Tamil Film Industry.

**REFERENCES**

- “The Oxford History of World Cinema” – By Geoffrey Nowell – Smith – Oxford University Press
- “How to Read Films” – By James Monaco – Oxford University Press

**COURSE II**  
**(C19CG12/E19CG02)INTRODUCTION TO BASICS OF PHOTOGRAPHY & CINEMATOGRAPHY**

**OBJECTIVES:**

- To equip the students understand fundamentals of Photography and Cinematography
- To enable the students to differentiate techniques for still images and video images
- To equip students to get familiar with composition skills required for better photography

**UNIT I**

**18 Hrs**

Photography- What is a camera - parts of camera – SLR cameras – DSLR cameras – Camera settings - Exposure – White balance - what lens does - lens characteristics – focal length – lens and composition – Depth of field – photographic accessories- Basics of Composition– Camera Filters & Filter factors

**UNIT II**

**18 Hrs**

Cinematography– Early motion picture cameras- modern Digital motion picture cameras– film formats & Aspect ratios – motion picture film stock.

**UNIT III**

**18 Hrs**

Digital cinematography beginning – sensors - resolution – analog/digital - shutter – ISO sensitivity – LCD – menu – memory cards- DSLR cinematography - Canon 5D MARK II & III – Sony a7sII-Understanding Histogram.

**UNIT IV**

**18 Hrs**

Scene- sequence- shots by size- 180degree rule- Basic camera movements- panning- tilting- camera angles- Objective, Subjective, point of view shots- Filming space & time– track shoots- Zooms.

**UNIT V**

**18 Hrs**

Basics of Colour theory

**REFERENCES:**

- PIXEL- Book on Digital Cinematography- CJ Rajkumar
- CLICK- Book on Digital Photography- CJ Rajkumar
- The Camera- Ansel Adams
- The Digital Photography- Scott Kelly
- The 5 C's of Cinematography, Joseph V. Mascelli, Los Angeles, Silman James Press, 1965

**COURSE III**  
**(C19CG13/E19CG03)INTRODUCTION TO LIGHTING**

**OBJECTIVES**

- To enable students to know different light bulbs and fixtures
- To equip students to understand basic safety measures while handling power sources

**UNIT I**

**18 Hrs**

Theory of light – Inverse square Law- Colour Temperature- Different types of lighting – Safety measures - Light meters.

**UNIT II**

**18 Hrs**

Types of light & fixtures – Natural light sources – Artificial light sources – Characteristics of natural and artificial light sources – Photographic light sources - Tungsten lights – Fluorescent lights – The concept of small and large light sources – Fresnel spot lamps – Open face lamps.

**UNIT III**

**18 Hrs**

Gas discharge lamps – The concepts of metal Iodide lamps – HMI lamps – Importance of ballast in HMI lamps – Carbon arc lamps – PAR lamps – Modern technology lamps-DEDO lights- Latest LED fixtures

**UNIT IV**

**18 Hrs**

Introduction to Light gel Filters– Diffusers.

**UNIT V**

**18 Hrs**

Lighting accessories– Nets – Gauss – Barn doors – Reflectors – Dimmers – Scrims.

**REFERENCES:**

- Oli Oviyam- Book on Basic Film Lighting- CJ Rajkumar
- Motion Picture and Video Lighting, Brown: Blain, Focal Press, 1996
- Film and Video Terms and Concepts: Ferncase, Richard K. Boston: Focal Press, 1995
- Television Production Handbook: Zettl, Herbert Published 2005, Thomson Wadsworth
- TV Production: Gerald Millerson Published 1993, Focal Press

## Course IV

### (C19CE10/E19CE10)Communicative English

#### 1. Basic Grammar:

- a. Review of grammar
- b. Remedial study of grammar
- c. Simple sentence
- d. Word passive voice etc.

#### 2. Bubbling Vocabulary:

- a. Synonyms
- b. Antonyms
- c. One – work Institution

#### 3. Reading and Understanding English

- a. Comprehension passage
- b. Précis – writing
- c. Developing a story from hints.

#### 4. Writing English

- a. Writing Business letters.
- b. Paragraph writing
- c. Essay writing
- d. Dialogue writing

#### 5. Speaking English

- a. Expressions used under different circumstances
- b. Phonetics

#### Reference

1. V.H.Baskaran – “English Made Easy”
2. V.H.Baskaran – “English Composition Made Easy”  
(Shakespeare Institute of English Studies, Chennai)
3. N.Krishnaswamy – “Teaching English Grammar”  
(T.R.Publication, Chennai)
4. “Life Skill” – P.Ravi, S.Prabakar and T.Tamzil Chelvam,  
M.S.University, Tirunelveli.

**COURSE V**  
**PRACTICAL I**  
**(C19CGP1/E19CGP1) LIGHTING**

**OBJECTIVES:**

- To equip students to handle different lights for creating both natural and stylized looks
- To enable students determine proper exposure for different lights used
- To equip students to place lights in different positions to attain classic lighting methods

**Exercises**

1. Setting up different bulbs, fixtures, power requirements and safety measures - **10 Hours**
2. 3-Point lighting Methods, Rembrandt, Low-key, High-Key, Butterfly & split lighting, Different Lighting Ratios- **20 Hours**
3. Exposure practice with Light Meter- **18 Hours**
4. Special Effects Lighting(Green Screen, Fire, Moonlight, Night Lighting) - **18 Hours**



**Semester II**  
**COURSE VI**  
**(C19CG21/E19CG04)ADVANCED CINEMATOGRAPHY**

**OBJECTIVES:**

- To equip students to know modern Digital Cinema Cameras and its functionalities
- To equip students to apply aesthetic principles of colour and composition to a shot, scene or sequence in Video
- To enable students to build visual Blocks

**UNIT- I**

**18 Hrs**

Introduction to Advanced Digital cinema cameras: High Definition Cinema cameras – Canon cinema cameras - Red digital cinema cameras - ARRI Digital cinema cameras – Black magic cinema cameras 2.5k and 4k cameras - Sony cine Alta cinema cameras - New Digital cinema cameras – and Special applications cameras - High speed Cinematography – Time lapse cinematography- File formats & CODECS- Digital Colour Correction.

**UNIT- II**

**18 Hrs**

Cinema lens: Introduction to cinema lens – Lens mount – Types of different lens used in motion picture industry - Anamorphic lens and uses- Lens crop Factor & Sensor sizes. Special Effects Cinematography: Green Matte- Miniature- Underwater- Aerial Filming- special rigs & grips- motion control cinematography.

**UNIT- III**

**18 Hrs**

Aesthetics of Cinematography Composition: Rules of Composition- Frame Balance- Perspective- - staging dialogue sequence- Types of Shots- one point, two point, three point perspectives- space vs subjects- Imaginary line centre of interest- positioning centre of interest- selective focusing- dynamic composition- Visual blocks

**UNIT- IV**

**18 Hrs**

Frame Rate: High Frame rate cinematography- Effects. Camera Movements Choreography: Line of action- panning to cover action- Exit and entrance of frame- Different Tracking shots- panning along with subjects- Different types of trolley shots- Crane Shots- Trolley with Crane- Crane Assembling. Special Camera Rigging: - Special riggings- Car, Bike, Helmet rigs.

**UNIT- V**

**18 Hrs**

Advanced Lighting: CRI (color rendering Index) for different lights - Lighting for different faces- shooting Night Exteriors- outdoor lighting HMI- reflectors- warm and cool lighting - close-up lighting - lighting for rain- Three plane lighting. Colour Theory: Advanced Colour Theory-Different types of Colour schemes- Study of Colour (psychological impact).

**REFERENCES:**

- Cinematography: Theory and Practice: Image Making for Cinematographers, Directors, and Videographers, Blain Brown, New York, Focal Press, 1993.
- The Camera Assistant's Manual, David E. Elkins, Los Angeles: Focal Press, 1993.

**COURSE VII**  
**(C19CGP2/E19CGP2)CINEMA CAMERAS OPERATION**  
**PRACTICAL II**

**Course Content:**

- Basic DSLR & Cinema Cameras assembling practice
- Menu navigation practice for both DSLR & Cinema Cameras
- Cinema Camera practice with Different lenses      Cinema      camera practice with Tripod, trolley & crane
- Cinema camera practice with different frame rate

**COURSE VIII**  
**(C19LS23/E19LS05)Life Skill**

I Life Coping or adjustment

- a) External and internal influence in one's life
- b) Process of coping or adjustment
- c) Coping with physical change and sexuality
- d) Coping with stress, shyness, fear, anger far live and criticism.

II Attitude

- (a) Attitude
- (b) Self acceptance, self – esteem and self actualization
- (c) Positive thinking

III Problem Solving

- (a) Goal Setting
- (b) Decision Making
- (c) Time Management and stress Management.

IV Computers

- (a) Introduction to Computers
- (b) M.S.Office
- (c) Power Point

V Internet

- (a) Introduction to internet
- (b) E – mail
- (c) Browsing

**References**

- 1) Life Skill Programme course I & II by Dr. Xavier Alphona MCRDCE Publications. R.K.Mutt Road, Chennai – 28
- 2) ஆளுமை பண்பு வளர்த்தல் மற்றும் தகவல் தொடர்பு by M.Selvaraj Community College, Palayamkottai
- 3) “Life Skill” –P.Ravi, S.Prabahar & T.Tamil Chelvam, M.S. University, Tirunelveli

**COURSE IX  
PRACTICAL III  
(C19CGP3/E19CGP3)DIGITAL FILM PRODUCTION**

**Exercises**

1. Documentaries
2. Educational and Instructional Programs
3. Commercials- Public Service
4. Commercial-Product or Service

Students should do individual projects containing the record and the program Final practical examination will test students on their ability to prepare a complete script and story board on any of the above-mentioned format.

**COURSE X  
(C19CGPW/E19CGPW)PROJECT WORK  
MAJOR PROJECT AND VIVA – VOCE (SHORT FILM)**

**PROJECT DETAILS**

Students should develop an idea or story on their own and make it into a short film project on their own or else they have to serve as a Cinematographer to the Direction student's final project.

The project for cinematography can be a film/documentary.

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