Course Syllabus

1. **Program of Study** Bachelor of Arts (Film Production)
   Faculty/Institute/College International College, Mahidol University

2. **Course Code** ICFM 306 **Course Title** Film Laboratory Procedures

3. **Number of Credits** 4 (Lecture/Lab) (0-8)

4. **Prerequisite*(s)*** ICFM 201, ICFM 204

5. **Type of Course** Required for Film Production

6. **Trimester / Academic Year** Third Trimester / Year III

7. **Course Description**
   Film laboratory procedures: film processing, color grading, negative cutting, creating optical effects, film printing; and quality control in film laboratory.

8. **Course Objective*(s)***
   After finishing the course, students will be able to demonstrate an understanding of the role, techniques, and functions of the film laboratory in the post-production process through hands-on practice and team presentations.

9. **Course Outline**

Week	Topic		Instructor
	Lab	Hour	
1	Lab operation: overview of lab equipment and work flow	8	
2	Theory and principles of light and color; Exercise I: hands-on practice in color gradation	8	
3	Film system: film composition and type; Exercise II: hands-on practice in film strip measurement and control	8	
4	Film sensitometry: measuring light sensitivity; Exercise III: hands-on practice in film sensitometry	8	
5	Film characteristics: quality, sharpness and grain, color balance; Exercise IV: hands-on practice in identifying film characteristics	8	

6	Film processing procedures; Exercise V: hands-on practice in 'aim density' control and measurement	8	
7	Film processor: operation and function Exercise VI: hands-on practice in operating a film processor	8	
8	Processing control: quality control of chemicals Exercise VII: hands-on practice in chemical control	8	
9	Color analyzer: grading; Exercise VIII: hands-on practice in operating the color analyzer	8	
10	Film printer: operation and function; Exercise IX: hands-on practice in operating a film printer	8	
11	Optical Sound Transfer: photographic sound reproduction and control; Exercise X: hands-on practice in operating an Optical Sound Transfer	8	
12	Final exam; team presentation	8	
	Total	96	

10. Teaching Method*(s)*

Lecture, demonstration, and hands-on laboratory practice

11. Teaching Media

Power Point presentation, handouts, film test, chemical solution, etc.

12. Measurement and evaluation of student achievement

Assessment is made from the criteria of A, B+, B, C+, C, D+ and D

13. Course evaluation

Lab exercises	50%
Final Exam	20%
Team Paper	15%
Team Presentation	15%

14. Reference*(s)*

1. Kodak Publication H-24 Manual for Processing EASTMAN FILM (module H2401 to H242415)
2. Kodak Publication H-2 Cinematographer's Field Guide
3. MP3-050E-A Fujicolor motion picture film manual
4. American Society of Cinematographer: Cinematographer handbook
5. S.M.P.T.E. (Society of Motion Picture Television and Engineer) journal

6. Focal Group: Motion Picture Film Processing
7. Focal Group: Your Film and the labs

15. Instructor*(s)*

TBA

16. Course Coordinator

Sarunya Noithai