



ESCUELA UNIVERSITARIA
DE ARTES. MADRID

Digital Imaging Technician (DIT)

COURSE GUIDE

BACHELOR'S IN FILMMAKING

COURSE 2026/2027



Universidad
Rey Juan Carlos

Course data

<i>Duration</i>	Annual
<i>Credits</i>	6 ECTS
<i>Modality</i>	In-person
<i>Language</i>	English
<i>Faculty</i>	Filmmaking
<i>Teacher</i>	Susana Ojea

Course presentation

Analysis and practice of the digital imaging technician's work: digital cameras, lenses and cameras in HDTV, digital cinema, DIT station.

Student competencies

CG01	Utilize different historical, sociologic, cultural and/or artistic sources in the creation of audiovisual projects.
CG03	Know the codes of ethics and deontology applicable to the audiovisual industry.
CG04	Know the various applications of the technological resources from the field of audiovisual creation.
CG05	Understand the concepts of photography, the creation of the film image and audiovisual language from an artistic and technical perspective.
CE03	Know the production workflows of the audiovisual industry.
CE07	Understand the importance of the various roles, tasks and responsibilities related to the development of audiovisual projects.
CE17	Understand the possibilities offered by film technology and light engineering to create specific settings and atmospheres.
CE18	Work with different image capture technologies in accordance with the needs of the project.

Learning outcomes

Upon completion of this course, each student must be able to:

1. Identify similarities and differences between professional capture devices and high-end digital cameras.

2. Understand the basic concepts of digital color correction, color space and gamut, and the assignment of color curves and the use of color management and treatment software.
3. Use different data backup systems and establish copy methodologies to ensure correct Data Wrangling of filmed material.
4. Design workflows that are suitable to the needs and requirements of professional film shoots.

Teaching methodology

MD1	Participatory masterclass.
MD2	Case studies and discussion.
MD3	Problem resolution and discussion of results.
MD5	Cooperative and collaborative learning.
MD6	Academic tutoring.

Course content

Content	Analysis and practice of the job of Digital Image Technician: digital cameras, lenses and cameras in HDTV, digital film, DIT station. 1. The Digital imaging technician: DIT Junior and DIT Senior 2. From the camera sensor to the projection screen: photodiodes, pixels, Bayer mosaics, digital sensors, APS-C, CCD, CMOS, super 35mm., Large Format, HD and UHD, dynamic range, color depth or bits, bit rate, etc. 3. Camera configurations. 4. Color grading (color correcting): photopic vision, scotopic vision, test charts, color bars, wave shape monitor, clipping and crushing, vectorscope, RGB color space, Gamma correction, linear codification, etc. 5. File formats. 6. Data managing / wrangling. 7. Workflows.
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Learning activities

AF1	Theoretical and theoretical-practical classes.	15 hours
AF2	Classroom/laboratory exercises and practices.	24 hours
AF4	Art appreciation activities: attendance at seminars, visits to exhibitions or viewing of visual/audiovisual works.	12 hours
AF5	Search and selection of documentation, reading of supporting material and bibliographic and visual references.	60 hours
AF6	Academic tutoring.	6 hours
AF7	Evaluation.	3 hours

AF8	Autonomous study of theoretical content and autonomous preparation of practical work and activities.	60 hours
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* *The distribution of hours between training activities may undergo changes due to the academic needs of the course, the group and/or the teaching team.*

Assessment

GENERAL ASSESSMENT CRITERIA

ATTENDANCE

The classes are in-person, and attendance is mandatory, as it is a determining factor in the continuous assessment system, as well as in class attitude and participation. However, in exceptional cases due to health situations or family reconciliation, students may request online access as a methodological adaptation (for more information, please contact the student department).

MARKS

Continuous Assessment is a comprehensive assessment of each student's results judged on the assessment criteria described in the following section, on a scale of 0 to 10 as provided in current legislation.

Students wishing to bring up their grade in the extraordinary/re-assessment period must first contact the Registrar's Office to expressly waive in writing all of the marks they obtained in the regular assessment period. Their final assessment mark will be the mark obtained in re-assessment.

SPELLING AND EXPRESSION

The grading of written examinations and assignments will consider spelling, grammar, and clarity of expression. Errors in spelling, punctuation, and writing style may negatively affect the final grade, depending on their nature, frequency, and severity.

UNIVERSITY WRITTEN REPORTS

These must have a title page, table of contents and bibliography listing at least 4 sources. These works must be original. Excerpts from other authors must be properly cited. Demonstrable plagiarism is an academic offense. If one student copies the work of another student, both shall be held accountable.

SPECIFIC ASSESSMENT CRITERIA

REGULAR ASSESSMENT PERIOD

The teaching team will provide the details/specifications on the content or submission of assessment tasks; this information will be given in class or in a document made available to the student on the Virtual Course Space (in Spanish, *Aula Virtual*).

Assignments not submitted by the deadlines set by the teaching team will receive an assessment mark of 0.

<i>Assessment task (*)</i>	<i>Revaluable/non-revaluable</i>	<i>Minimum mark yes/no</i>	<i>% of final mark</i>
SE1 In-class tests and examinations (oral and/or written)	Reevaluable	Yes	30%
SE3 Continuous assessment: weekly tasks and homework, periodical reports, problem resolution	Non reevaluable	Yes	60%
SE5 Attitude and participation	Non reevaluable	No	10%
			100%

(*) Records and evidence of all of the assessment tasks (writings, recordings, etc.) listed in this table will be kept and filed in the Registrar's Office.

EXTRAORDINARY/RE-ASSESSMENT PERIOD

Students who have not passed the course during the regular assessment period may choose one of the following extraordinary assessment options:

- **Option 1: Criterion-based reassessment.** Assessment will be limited exclusively to the reassessable criteria that were not passed during the regular assessment period. The reassessment activity will be of the same nature as the original one (exam, assignment, etc.). The grades obtained in the ordinary assessment period for non-reassessable criteria (provided the minimum passing grade was achieved) will be retained and included in the weighted calculation of the final extraordinary assessment grade.
- **Option 2: Comprehensive reassessment.** Students may complete a single assessment activity accounting for 100% of the extraordinary assessment. The nature of this activity will be determined by the instructor and may include an oral or written examination, submission of a portfolio, theoretical and/or practical assignments, or other equivalent forms of assessment.

The instructor must communicate both Option 1 and Option 2 for the extraordinary assessment through the course notice board on the virtual campus at least 10 days prior to the extraordinary assessment date.

Students must respond to this communication via the virtual campus notice board, indicating their choice of Option 1 or Option 2, at least 3 days prior to the extraordinary assessment date. If a student does not respond, the instructor will automatically apply Option 2 (a single assessment activity accounting for 100% of the extraordinary assessment).

REVIEW OF ASSESSMENT MARKS

As set out in the TAI School of the Arts Student Handbook.

Resources

RECOMMENDED BIBLIOGRAPHY

Brown, B. (2014). *The filmmaker's guide to digital imaging: For cinematographers, digital imaging technicians, and camera assistants*. Routledge.

Pérez, V. (s.f.). *The color management handbooks for VFX artists*.

Stump, D. (2014). *Digital cinematography: Fundamentals, tools, techniques, and workflows*. Focal Press.

Trim, R. L. (2022). *Digital imaging technician: A very practical guide to on-set asset management of digital media*.

RECOMMENDED FILMOGRAPHY

Cameron, J. (Director). (2022). *Avatar: The way of water* [Motion picture]. 20th Century Studios; Lightstorm Entertainment.

Fincher, D. (Director). (2020). *Mank* [Motion picture]. Netflix.

González Iñárritu, A. (Director). (2015). *The revenant* [Motion picture]. 20th Century Fox; Regency Enterprises.

Kosinski, J. (Director). (2022). *Top Gun: Maverick* [Motion picture]. Paramount Pictures; Skydance Media.

RECOMMENDED WEBSITES

Blackmagic Design. (s.f.). *DaVinci Resolve*. <https://www.blackmagicdesign.com>

Creative COW. (s.f.). *Creative COW forums*. <https://creativecow.net>

FilmLight. (s.f.). *FilmLight: Home of Baselight*. <https://www.filmlight.ltd.uk>

Frame.io. (s.f.). *Frame.io insider blog*. <https://frame.io/blog>

International Colorist Academy. (s.f.). *ICA: International Colorist Academy*. <https://icolorist.com>

Netflix. (s.f.). *Netflix partner help center*. <https://partnerhelp.netflixstudios.com>

Pomfort. (s.f.). *Pomfort: Software for professional film production*. <https://pomfort.com>



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REQUIRED MATERIALS FOR THE COURSE

Pen and paper for note-taking.

VISITS, MASTER CLASSES, EVENTS AND ADDITIONAL WORKSHOPS

To be determined throughout the course.