TV-119: Engineering for Production Students

Course Description:

This course is a study of basic television systems and equipment embracing the techniques of camera video operations (registration, color balancing, maintenance, video level control), audio- and videotape systems, switchers, audio consoles, microphones, character generators and time-code editors.

Total Credits: 3.00

Course Competencies

1. Identify Domestic and Foreign Television Standards.
2. Identify Signal Components.
3. Identify basic image criteria.
4. Demonstrate aperture.
5. Identify signal definition.
6. Identify systems.
7. Identify color properties.
8. Identify color signal primaries.
9. Identify sub-carrier systems.
10. Identify digital and analogue formats.
11. Identify sampling and binary systems.
12. Identify transmission systems.
13. Identify camera components.
15. Identify the history of video recording.
16. Identify video recorder system design.
17. Identify electronic types of video recorders.
18. Contrast home and professional units.
19. Identify system electronics.
20. Identify edit systems.
21. Identify edit system electronics.
22. Identify rules and regulations.
23. Identify transmission systems.
24. Identify antenna systems.
25. Identify the history and elements of CATV.
26. Identify the physical layout of CATV systems.
27. Identify the history and elements of satellite systems.
28. Identify transmission systems.
29. Identify a system overview.
30. Identify system layout.
31. Identify color receiver configurations.
32. Identify history and elements of HDTV.
33. Identify performance implementation.