-SQA-SCOTTISH QUALIFICATIONS AUTHORITY

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NATIONAL CERTIFICATE MODULE DESCRIPTOR

-Module Number- **8170011** **-Session-1991-92**
-Superclass- **KE**

-Title- **PHOTOGRAPHY: COLOUR PRINTING**

-DESCRIPTION-

Purpose

This module aims to give the student a practical introduction to the techniques of colour printing.

It is designed for students of photography and for those who would benefit from experience in colour printing.

Preferred Entry Level

91844 Introduction to Photography.

Outcomes

The student should:

1. explain the elementary principles of colour theory;
2. select a correctly exposed negative;
3. produce a test strip from a chosen negative;
4. produce an enlarged colour print free from colour cast.

Assessment Procedures

Acceptable performance in this module will be satisfactory achievement of all the Performance Criteria specified for each Outcome.

The following abbreviations are used below:

PC Performance Criteria
IA Instrument of Assessment

Note: The Outcomes and PCs are mandatory and cannot be altered. The IA may be altered by arrangement with SQA. (Where a range of performance is indicated, this should be regarded as an extension of the PCs and is therefore mandatory.)

OUTCOME 1 **EXPLAIN THE ELEMENTARY PRINCIPLES OF COLOUR THEORY**

PCs

(a) The explanation of the elementary principles of colour theory is correct in terms of:
additive/subtractive colour synthesis;
reproduction of colour prints by the negative positive process; construction of colour negative film and paper; effects of colour temperature on negative film/colour prints.

IA Short Answer Questions

The student will be presented with five short answer questions to assess his/her knowledge of colour theory. One question should relate to each of the following four broad areas of knowledge and the fifth to any of the four:

(i) additive/subtractive colour synthesis;
(ii) reproduction of colour prints by the negative positive process;
(iii) construction of colour negative film and paper;
(iv) effects of colour temperature on negative film/colour prints.

Satisfactory achievement of the Outcome will be based on the Performance Criterion being met. This will be demonstrated by the student answering all the questions correctly.

OUTCOME 2 **SELECT A CORRECTLY EXPOSED NEGATIVE**

PCs

(a) The selection of viewing conditions is correct in terms of the standardised colour temperature and light source.
(b) The selection of an exposed negative by visual comparison with a manufacturer's standard negative is correct.

IA Practical Exercise

The student will be presented with a practical exercise to test his/her ability to select a correctly exposed negative from which to make a print either from a series of his/her own colour negatives or from a set supplied by the tutor.

Satisfactory achievement of the Outcome will be based on all Performance Criteria being met. This will be demonstrated by way of an observational checklist and the retention of the negatives.

OUTCOME 3 **PRODUCE A TEST STRIP FROM A CHOSEN NEGATIVE**

PCs

(a) The setting up of the enlarger with the chosen negative is correct in terms of:
fitting/setting the appropriate aperture of the lens; selecting initial filtration according to the manufacturer's recommendations; orientation of the negative in the negative carrier.
(b) The print size is to the given brief.
(c) The production of the first test strip to determine exposure and colour cast is correct.
(d) The identification and evaluation of the colour cast are correct.
(e) The adjustment of the enlarger filter settings to correct the cast is accurate.

IA Practical Exercise

The student will be presented with a practical exercise to test his/her ability to produce a test strip from a previously selected negative. The student will be supplied with a specific enlargement size.

Assistance may be given to identify the numerical value of the shift required to achieve a correct balance.

Satisfactory achievement of the Outcome will be based on all Performance Criteria being met.

OUTCOME 4 **PRODUCE AN ENLARGED COLOUR PRINT FREE FROM COLOUR CAST**

PCs

(a) The identification and evaluation of exposure and colour cast are correct for the final enlarged colour print.
(b) The adjustment of the enlarger filtration is to the correct settings for the final enlarged colour print.
(c) The colour balance/exposure is correct for the final enlarged colour print.

IA Practical Exercise

The student will be presented with a practical exercise to test his/her ability to produce an enlarged colour print free from colour cast under the supervision of the tutor. The student will be supplied with a specific enlargement size; he/she will work from the colour negative previously selected and use the test strip produced for the production of the print. A comparison of final print colour balance will be assessed against a manufacturer's standard, i.e. a colour ring-a-round.

Satisfactory achievement of the Outcome will be based on all Performance Criteria being met.

The following sections of the descriptor are offered as guidance. They are not mandatory.

CONTENT/CONTEXT

Corresponding to Outcomes 1-4:

The student should at all times comply with procedures and regulations designed for safe practice and use safe working practices specified for equipment and work areas within the photographic darkroom.

1. Additive/subtractive colour synthesis; primary and complementary colours of light; layout of multi-layer emulsion colour film; integral negative masking; dye deficiencies, colour couplers, colour temperature; daylight and tungsten balance films; colour viewing conditions (balanced fluorescent tubes), viewing filters; negative and paper structure.

2. Light box: viewing conditions; exposure evaluation; processing faults; fogging to extraneous light; manufacturer's standard negative; colour temperature.

3&4. Colour enlargers, subtractive printing colour head, additive colour printing filters; voltage stabilising, dichroic filters, timers, colour analyser, safe lighting; ventilation requirements; colour print materials: chromogenic/dye bleach (eg. cibachrome), paper surface types; processing facilities.

SUGGESTED LEARNING AND TEACHING APPROACHES

It is recommended that tutors check whether students have any abnormalities of colour vision.

The student should follow an activity-based learning approach, seeking guidance at each stage.

Equipment, processes and procedures which cannot be experienced should be reinforced by films, videos, slides and if possible, visits to commercial premises.

The student should gain 'hands on' experience of enlarging equipment and be given initial assistance in the identification and correction of unwanted colour casts. He/she should develop the ability to work independently of the tutor and be encouraged to make decisions regarding the progressive nature of colour printing. Time limitations in terms of use of enlargers should be enforced in order that students gain an awareness of professional requirements.

Activities should be based on a brief set by the tutor with each procedure explained, demonstrated and then followed by supervised participation by the student.

Students should be encouraged to compare results with each other and to discuss different approaches and solutions to problems. This can be done on an informal basis with active student participation encouraged. A formal evaluation could take place at the end of the module which would assist in ensuring the effectiveness and acceptability of the final assessment.

Exemplars and 'Colour Ring' around should be available to assist students in identifying and correcting colour casts.

Negatives, test strips and prints should be retained with a log book detailing the filter corrections necessary to remove unwanted colour cast.
