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THE UNIVERSITY OF SHEFFIELD
INSTITUTE OF EDUCATION

Certificate in Education
1952



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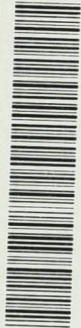
Regulations
Requirements
and
Syllabuses

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INSTITUTE OF EDUCATION

Certificate in Education
1952

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THE UNIVERSITY OF SHEFFIELD
INSTITUTE OF EDUCATION

Certificate in Education - 1952

Regulations

I. Conditions for the award of the Certificate.

In order to pass in the examination, a candidate must :—

- (a) reach a required percentage in each of the subjects which he/she has taken at the examination.
- (b) obtain a sufficient aggregate of marks in the subjects of the examination taken as a whole.
- (c) have made satisfactory progress in his/her whole course.

II. Marks of Merit.

Distinction may be awarded in the Principles and Practice of Education and in subjects taken at an Advanced standard.

III. Aegrotat.

A student who is prevented by ill-health from taking the final examination or any part of it, may be allowed a pass in the examination as a whole or in the subject or subjects omitted provided that :—

- (a) A report is received from the Principal of the College concerned, certifying that the student had made satisfactory progress in the course and would normally have passed in the whole examination or in that part from which he/she was absent.
- (b) A medical certificate is received to the effect that the student was prevented by ill-health from taking the examination in the subject or subjects concerned.
- (c) Where a student has been absent from one paper in a subject, in which there are two or more papers, the examiners in that subject will recommend whether a pass or an aegrotat pass will be awarded.
- (d) An aegrotat certificate will not contain any marks of merit.

IV. Re-examination of Failures.

- (a) A candidate who fails in the examination will normally be re-examined at the end of the first session following that in which he first presented himself for examination. If he does not present himself for this re-examination, or having presented himself fails to pass, he may be re-examined at the end of the session next following. In exceptional circumstances, this period of two sessions may be extended by the Institute.
- (b) A candidate who has gained a sufficient aggregate of marks in the examination taken as a whole but has failed to reach the required percentage in one subject where three are taken, or, in one or two subjects where more than three are taken, shall be required to take the examination again in the subject or subjects in which he/she has failed.
- (c) A candidate who has obtained a sufficient aggregate of marks in the examination taken as a whole but has failed in more than one subject where three are taken, or in more than two subjects where more than three are taken shall be required to take the whole examination again.
- (d) A candidate who has passed in each subject but has failed to obtain a sufficient aggregate of marks in the examination taken as a whole shall be required to take the examination again in such subjects as the combined Board of Examiners may determine on the recommendation of the Principal of the College concerned. To obtain a pass in the re-examination the candidate must pass in those subjects and gain such marks in them as combined with the marks previously obtained in the subject(s) carried forward will enable him/her to reach the aggregate necessary for a pass in the examination taken as a whole.
- (e) A candidate who has failed both (i) to pass in each subject and (ii) to obtain a sufficient aggregate in the examination taken as a whole shall be required to take the whole examination again.
- (f) The regulations and syllabuses governing courses and examinations for a candidate presenting himself/herself for re-examination in any year will be those current in that year for candidates presenting themselves for their first examination, unless otherwise determined by the Professional Committee of the Institute.
- (g) A candidate whose work in a general (one-year) subject is not deemed satisfactory on assessment, shall be required to repeat the course and to be re-assessed at the end of the following year.
- (h) A candidate offering work in a general (one-year) subject which consists of a general section combined with a special study who satisfies the assessor in the general section but not in the special study may be re-assessed in the special study only in the following year.

Requirements

A.—TWO-YEAR TRAINING COLLEGES.

Candidates for the Certificate in Education will be required to offer professional subjects and two general (*i.e.*, two-year) subjects, or subjects accepted by the Professional Committee as their equivalent. External examination and/or assessment is to be applied to all these subjects, which are as follows:—

I. Professional Subject (Students of all Training Colleges).

The Principles and Practice of Education :

II. General Subjects.

(i) Students of Sheffield City Training College.

Two subjects to be selected from the following list, of which one may be taken at advanced standard. Exceptionally the second subject may be taken at advanced standard with the permission of the Principal of the College. (1)

Art with subsidiary Crafts or Crafts with subsidiary Art
Biology
English Language and Literature
Geography
History
Mathematics
Music
Physical Education
Physics (Advanced Course only)
Religious Knowledge
Science
Woodwork (Advanced Course only)

(ii) Students of Thornbridge Hall Training College.

Two subjects selected from the following list, of which one may be taken at advanced standard. Exceptionally the second subject may be taken at advanced standard with the permission of the Principal of the College. (1)

Art with subsidiary Crafts or Crafts with subsidiary Art
English Language and Literature
Geography
History
Music
Religious Knowledge (Ordinary Course only)
Science

(iii) Students of Wentworth Castle Training College.

One Special (*i.e.*, two-year) course in one subject ; and Two General (*i.e.*, one-year) courses, one in each year, in two other subjects ; all to be selected from the following list:—

Art and Crafts (Special Course only)
Art and/or Crafts (General Course only)
English Language and Literature
Geography
History
Music
Nature Study (General Course only)
Biology (Special Course only)
Religious Knowledge

Note.

1. A student may take both of these alternatives as two separate subjects only with the special permission of the Professional Committee of the Institute.

(iv) **Students of Doncaster Training College.**

Two subjects selected from the following list, of which **one** may be taken at advanced standard. Exceptionally the second subject may be taken at advanced standard with the permission of the Principal of the College.

- Art and Crafts (Courses A.B.C.)⁽²⁾
- Biology
- English Language and Literature
- Geography
- History
- Mathematics
- Music
- Religious Knowledge (Ordinary Course only).

Note.

2. *Courses A and B may be taken as separate subjects only by special permission of the Professional Committee: course C may not be combined with either course A or course B.*

B.—THREE-YEAR TRAINING COLLEGES.

(i) **Students of the Lady Mabel College of Physical Education.**

Candidates for the Certificate in Education will be required to satisfy the examiners in English Language and in the following **four** subjects:—

1. The Principles and Practice of Education
2. Physical Education (Theoretical) (Advanced)
3. Physical Education (Practical) (Advanced)
4. **One** of the following subjects studied to advanced standard:—
 - (a) Art and Crafts
 - (b) Biology
 - (c) English
 - (d) Music

C.—UNIVERSITY DEPARTMENT OF EDUCATION.

Candidates for the Certificate in Education will be required to offer Principles and Practice of Education.

Syllabuses

UNIVERSITY OF SHEFFIELD DEPARTMENT OF EDUCATION

Syllabuses in the Principles and Practice of Education for Graduates taking the one-year course of training :

Theory of education.

The scientific bases of education.

The historical foundations of modern educational theory and practice.

Methods of teaching the subjects of the curricula of the various types of secondary school.

One of a number of subjects approved by the Department.

Practical teaching in schools.

SHEFFIELD CITY TRAINING COLLEGE

PRINCIPLES AND PRACTICE OF EDUCATION

1. The meaning and purpose of education ; its aims and general characteristics ; the relation of the school to other educational agencies.
2. Psychology as applied to school work.
3. The national provision for education and its recent history.
4. The general principles of teaching and their application to the curricula of schools for children of one of the following age ranges : 4—9, 6—12 or 9—15.
5. Practice in teaching.
6. Health Education. The principles underlying the promotion and maintenance of health and the application of these principles to school life and to the methods of training children in the ways of healthy living.

ART AND CRAFTS

Students may elect to study and practise Art with subsidiary Crafts or Crafts with subsidiary Art at either Ordinary or Advanced standard.

Each Course will include :

- (a) Appreciation.
- (b) Art and Crafts in the education of the child.
- (c) Practical work, affording opportunity to develop individual interests and skills.

All students not electing to follow one of the above courses will follow a Basic Course of one year's duration.

BIOLOGY

Work to be based on the study of common garden plants and animals, and of man ; leading to an understanding of natural and semi-natural communities, and of man's place in nature.

Ordinary Course

1. Structure and life histories of common flowering plants in cultivation. Annuals, biennials and perennials. Seasonal changes. Animals associated with garden plants. Structure and functions of the parts of the plant and cell metabolism. Seeds and germination. Growth and its co-ordination. Phases of growth. Vegetative propagation. Cell division.

2. Soils, structure and properties. Variations in garden soil. Soil bacteria. Manures. Erosion. Culture experiments. Chief crop plants. Weeds.
3. Diet. Plants used as food. Differences between plants and animals. Energy relations and interdependence.
4. Uses of food in the body. Morphology of a mammal sufficient to explain the elements of the processes of nutrition, excretion, response, reproduction and respiration. Experiments in animal physiology.
5. Animals used by man. Simple economic Biology. Domestic stock. Fisheries and plankton fluctuations. Bee culture. Pests, their predators and parasites.
6. Mendelism and modern genetics.
7. Organisms in relation to their environment. Investigation of natural communities, including seasonal changes and life cycles. Woodland. Hedgerow. Moorland and Pond. Work to include recognition of birds, trees, flowerless plants, etc. Introduction to forestry and to modern studies of bird Biology and behaviour. The origin and classification of natural soils. Use of aquaria.
8. Evolution. Simple study of the evidence for evolution and of evolutionary theories.

Advanced Course

Students taking Advanced Biology will be expected to have an elementary knowledge of Physics and Chemistry.

The work will follow the lines of the Ordinary Course to a much higher standard and with greater detail in experimental and microscopic work and analysis of field problems.

ENGLISH LANGUAGE AND LITERATURE

Throughout the course there will be exercise in expression, written and oral, and in the appreciation of a fairly wide range of types of literature not specifically mentioned in the syllabus.

Ordinary Course

Work will be done in the mechanics of English (grammar, word-study, sentence-structure), in precis and paraphrase, in the appreciation of prose and verse passages, and in general essay writing.

Literature

1. A general study of English drama, with a special study of one Morality play, one play by Shakespeare, one eighteenth century play and one twentieth century play.
2. A general study of the English lyric.
3. A general study of the English novel, with a special study of one nineteenth century novel and one contemporary novel.
4. Special study of one prose work other than a novel. Opportunity will be given for students to follow their special interests in literature during the second year.

Advanced Course

Appreciation of verse and prose passages with reference to literary trends. Precis of passages of literary or critical interest. General essay.

Literature

1. General study of English drama with a special study of either the Elizabethan or the contemporary dramatists.
2. General study of the English song-lyric, sonnet, ode and narrative poem.
3. General study of the English novel with a special study of the Victorians.
4. General study of the essay, diary, biography or satire, with special reference to one text.

In addition to the essays required during the second year, a short thesis will be expected from advanced students.

GEOGRAPHY

Ordinary Course

1. (a) Elementary physical geography
(b) Map study.
2. The geography of the British Isles in outline.
3. The study of specific areas and of specific aspects of geography within the broad framework of major world regions.
The subject matter and treatment in the ordinary course will be related to teaching requirements.

Advanced Course

1. General Principles
(a) Simple mathematical geography.
(b) Elements of Geomorphology.
(c) Elements of meteorology and climatology.
(d) Some consideration of world population and world economic resources.
(e) Map study.
2. The Geography of the British Isles in outline.
3. The detailed regional study of a continent or other major part of the world.
4. A study in the field by each student of a locality or some aspect of a locality.

HISTORY

Ordinary Course

- Part I. British History 1485 to present day.
Part II. Individual study of two subjects of general historical interest.

Advanced Course

- Part I. (1) British History 1832 to the present day.
(2) History of one European country 1832 to the present day, or Europe in the twentieth century.
Part II. Individual study of two subjects of general historical interest.

MATHEMATICS

Ordinary Course

1. Arithmetic.
2. Mensuration.
3. Algebra, as far as and including :
(a) simultaneous equations of two unknowns involving the squares of the unknowns ;
(b) arithmetical and geometric progressions ;
(c) ratio, proportion and variation ;
(d) simple partial fractions.
4. The elementary geometry of lines, circles, and the simpler solid bodies.
5. Trigonometry, as far as and including :
(a) solution of triangles ;
(b) circles connected with a triangle.

Advanced Course

The whole of the work for the Ordinary Course together with syllabus A and either syllabus B or syllabus C.

- A**
- Algebra, as far as and including:
 - The binomial theorem for a positive integral index ;
 - the use of the binomial expansion for any index ;
 - rational roots of equations ;
 - summation of well-known series.
 - Trigonometry, as far as and including :
 - ratios of angles of any magnitude ;
 - ratios of compound angles, products, sums and differences.
 - Differentiation and integration of algebraic, trigonometric and exponential functions of x , with applications to maxima, minima, tangents, normals, approximation and mensuration.
Expansions in power series.
Partial differentiation.
- B**
- The analytic treatment of lines, circles, ellipses, parabolas, hyperbolas (excluding the general equation of the second degree).
The use of polar co-ordinates.
Pole and polar.
Coaxal circles.
Similitude.
Inversion.
- C**
- Composition and resolution of coplanar forces. Centre of gravity.
Friction.
Laws of motion. Work and energy.
Uniform circular motion. Simple harmonic motion.
Projectiles.
Impacts.
Advanced course candidates are encouraged, but not compelled, to submit an essay-thesis done in their own time.

MUSIC

Ordinary Course

- Theory
- The elements of Musical notation.
 - Composition
 - Writing a simple melody.
 - Simple four-part harmony.
 - Theory and practice of teaching in secondary and primary schools.
 - Background of musical history and form as exemplified in works set for analytical study.
- Practical
- Dictation.
 - Sight-singing.

Advanced Course

The following in addition to the Ordinary Course.

- Theory
- Composition
 - Melody writing.
 - Four-part harmony.
 - History of Music and study of form.
- Practical
- Performance of standard songs or instrumental work.
 - Dictation.
 - Sight reading.

PHYSICAL EDUCATION (MEN)

Ordinary Course

1. The principles of physical education—its place in education—its scope—its physiology and hygiene.
2. Practice in the teaching of gymnastics—study of teaching methods with special reference to modern developments.
3. The theory, organisation and coaching of games, athletics and swimming.
4. Demonstration lessons.

Advanced Course

1. As for Ordinary Course.
2. Elementary study of anatomy and physiology.
3. More detailed study of theory of gymnastics, games, athletics and swimming—theory of movement.
4. Additional practice in teaching of gymnastics, games, athletics and swimming.

PHYSICAL EDUCATION (WOMEN)

Ordinary Course

The principles of physical education based on the Ministry of Education syllabuses with special reference to modern developments. The practice, methods of organisation and teaching of basic movement training—gymnastics—games—athletics—dancing and swimming. The study of elementary anatomy and physiology in relation to movement and physical development.

Advanced Course

1. As for ordinary Course.
2. More detailed study of theory of gymnastics, games, dancing, swimming and athletics, with special emphasis on any **one** aspect.
3. Additional practice in the teaching of gymnastics, games, dancing, swimming and athletics.

PHYSICS

Advanced Course

General study of statics, dynamics and hydrostatics.
Heat, including simple thermodynamics and heat engines.
Sound.
Light, including some study of optical instruments.
Electricity and magnetism, including elementary electrostatics, electro-magnetism and fundamental radio-physics.

RELIGIOUS KNOWLEDGE

The study, through the Old Testament, of the contribution of the Jewish nation to the religious experience of mankind. A detailed study of the origins and growth of Christianity and an examination of the fundamental tenets of the Christian faith.

SCIENCE

Ordinary Course

General Science—The aim and theme is the Elementary Science, pure and applied, of the home, farm and garden and an industrial community, including the scope of scientific development and its impact on modern thought.

Methods and objective of Science.
Chemistry— of air, water and common substances. Chemical cycles of biological importance.

- Biology— Characteristics of living organisms. Cells and cell structure. The organism regarded as a living machine. Soil study. Interaction of organism and environment and biological interdependence illustrated by plants and animals from garden, a natural community and man. Simple outline of genetics and evolution.
- Physics— of the atmosphere and liquids. Properties of matter, force and energy, simple machines. Experimental study of heat, light and electricity: their applications in house-hold appliances. Biology and modern industry. Power production—present and future. Atomic energy.

Advanced Course

Syllabus as for the Ordinary Course but taken in greater detail.

WOODWORK

Advanced Course

1. Drawing and Design.
2. Theory.
3. Practical Work — Practice in traditional methods of construction. Treatment of wood. Design and execution: objects of particular interest to individual students.

THORNBRIDGE HALL TRAINING COLLEGE PRINCIPLES AND PRACTICE OF EDUCATION

Child development—physical, mental, emotional and social.

The curriculum of the Primary school: its content and methods of treatment with special reference to either children below seven years or children over seven years.

The work of some great educationalists. The national provision for education; its recent history and present position. Related services.

Health Education with Physical Training.
Practical Teaching.

ART AND CRAFTS

Basic Course for all Students

Theoretical and practical work based on the needs of the teacher in the Primary School.

Art in everyday life.

Ordinary and Advanced Courses

The work of the Basic Course and, in addition, a special study of either (a) or (b) below.

(a) Art

Practical work in art and any chosen craft.
Art and crafts in school work.
Some study of historical and contemporary design.
An individual study.

(b) **Crafts**

One of the following must be chosen as the principal craft :

Bookcrafts.

Needlework.

Pottery.

Puppetry.

Textile design.

Practical work in the chosen craft together with related subsidiary crafts.

Design in relation to the crafts.

Art and crafts work in school.

Some study of historical and contemporary design.

An individual study.

ENGLISH LANGUAGE AND LITERATURE

Basic Course for all students

Development of skill in spoken and written English.

Study of selected books suitable for children and books about children.

Methods of teaching English in the Primary school.

Ordinary Course

Continuous work on vocabulary, grammar, sentence, paragraph and essay structure, and on comprehension and interpretation of selected passages of prose and verse.

Poetry—Selected works of major poets from Chaucer to present day.

Prose—Development of the novel. Special study of six novels.

Drama—General development. Special study of representative plays.

Advanced Course

Syllabus as for the Ordinary Course in greater detail, and with the following additions :—

An individual study of one writer or one aspect of literature.

A detailed study of an additional prose work (non-fiction) or a modern play.

GEOGRAPHY

Ordinary Course

Geography of the British Isles.

Specific aspects of geography within the broad framework of the major world regions.

Physical geography with practical work.

Map study.

Field study of a locality or some aspect of a locality.

A student must submit evidence of an individual study of some special topic or aspect of the subject.

Advanced Course

Syllabus as for the Ordinary Course in greater detail.

A higher standard will be required in the written examination, and in the special study.

HISTORY

Ordinary Course

English history and the great movements in the history of Western Europe with special reference to the development of modern society.

Preparation of a special study on any historical subject in which the student is interested.

Advanced Course

Syllabus as for the Ordinary Course in greater detail.

A higher standard will be required in the special study.

MUSIC

Ordinary Course

Singing of National songs, Folk songs, Classical songs, Descants, Part songs.
Sight singing.
Musical dictation.
Construction and writing of simple melodies.
Rudiments of music.
Elementary analysis and form.
Brief survey of development of music.
The orchestra.
Principles of teaching music in the Primary school.
Eurhythmics as a method of teaching music.

Advanced Course

As for the Ordinary Course, and in addition :—

- Study of Harmony.
- Improvisation.
- More detailed study of analysis and form.
- History of music.
- The attainment of a satisfactory standard of performance as a singer or instrumentalist.

RELIGIOUS KNOWLEDGE

Ordinary Course

1. The history of the Hebrew nation with emphasis on the development of the conception of God and on the work of the prophets.
2. The life and teaching of Christ.
3. The Growth of the Universal Church.

SCIENCE

Ordinary Course

Structure and physiology of animals and plants typical of the larger groups.
Ecology based on field work.
Elementary study of heredity and evolution.
Some social study, e.g., economic biology, disease, etc.
Lives and work of some famous scientists.
Elementary physics and chemistry necessary for the study of Biology.
Physical science suitable for the Junior school.
An individual study of a topic selected from any branch of Biology.

Advanced Course

Syllabus as for the Ordinary Course in greater detail.

A higher standard will be required in the written examinations, and in the individual study.

WENTWORTH CASTLE TRAINING COLLEGE

PRINCIPLES AND PRACTICE OF EDUCATION

- PART I.** (a) The Child—endowment ; learning processes ; development of character ; as an individual and as a member of a group, including discipline and freedom ; the handicapped child. The responsibilities and functions of the home and school as educational agencies, and the various ancillary services. A synopsis of the development of education.
- (b) The physical development of the child—physical activities ; elementary knowledge of human anatomy and physiology ; the healthy child ; common diseases and defects of childhood ; first aid in school emergencies.

PART II. The study of the aims and principles underlying the activities appropriate to the needs of the whole child.

either (a) 2—7 years
or (b) 7—11 years.

PART III. Practical Teaching.

ART AND CRAFTS

General Course (Art and/or Crafts)

Opportunities to develop the student's own skill and artistic capacity.

Special Course

As above, with additional concentration on one group of related art and craft subjects which form an integrated whole.

ENGLISH LANGUAGE AND LITERATURE

General Course

1. Spoken and written English.
Modern Literature, especially poetry and drama, including general reading of fiction and non-fiction.
3. Myth and heroic story.
4. A study of one aspect of English Literature, chosen with reference to students' previous knowledge.

Special Course

1. Spoken and written English.
2. General course concerned with (a) modern literature, especially poetry and drama, and general reading; (b) myth, legend and folk tale, heroic story and ballad.
3. The development of English drama, studying representative plays.
4. Either (i) the development of prose fiction and biography linking with 2(a) or (ii) a study of English poetry using representative texts and an anthology.

GEOGRAPHY

General Course

1. Map study.
2. Outline study of the major natural regions of the world, with more detailed consideration of certain regions and topics.

Special Course

1. Map study.
2. Elements of physical geography.
3. Outline study of the major natural regions of the world.
4. A comparative study of some of the regions of the British Isles. Field work in the local region.
5. Study of other selected regions and topics.
6. A piece of individual work.

HISTORY

General Course

An outline of English History.

Special Course

1. An outline of English History.
2. Study of the important questions and people of the nineteenth and twentieth centuries in Europe with special reference to England.
3. Special study of an approved subject.

MUSIC

All students follow a two-year course in Choral Singing.

General Course

Rudiments of music.
Appreciation including Form and Musical History.
Sight singing, aural and recorder work.

Special Course

Rudiments of music.
Harmony and Melody making. Recorder work. Sight singing and aural work.
Appreciation including Musical History and Form in more detail.
Instrumental and/or vocal work.

NATURE STUDY AND BIOLOGY

General Course

1. Animal and plant life studied practically by means of field work, dated records of observations, and experiments.
2. Study of underlying principles.

Special Course

1. A study of vegetation and animal life to be met with in the immediate surroundings, to include general biological principles and characteristics of the main phyla of the plant and animal kingdoms.
2. Field work with an ecological approach.
3. Care of livestock suitable for school use. Setting up and maintenance of aquaria, vivaria, etc. Beekeeping.
4. Each student will present a piece of individual work, either a study of a selected area or a special biological topic.

RELIGIOUS KNOWLEDGE

General Course

1. New Testament.
2. The life and teaching of Christ. A study of the Gospel of St. Mark. The Acts of the Apostles. The early Church.
3. Some religious leaders through the ages, and their contribution to modern thought and action.

Special Course

1. An outline study of the Old Testament, as a background to the New Testament.
2. New Testament, the life and teaching of Christ. A study of the Gospel of St. Mark. The Acts of the Apostles. The early Church.
3. The relevance of Biblical teaching to present day problems.
4. Special Study of approved topics, including some study of Christian doctrine.

DONCASTER TRAINING COLLEGE

PRINCIPLES AND PRACTICE OF EDUCATION

1. The Aims of Education

The child as an individual and as a member of society. Different conceptions of education.

2. Child Development

- (a) Characteristics and needs of children at different stages.
- (b) The various aspects of growth and development: physical, intellectual, emotional, social, and their inter-relationship.
- (c) Differences among children: temperament, personality, ability, aptitude. Methods of testing and assessing school records.

3. **The School, the Curriculum and the Environment**
 - (a) Functions and ideals of schools of various types.
 - (b) An outline of the English educational system, its traditions and development.
 - (c) The school environment and curriculum : the use of facilities afforded by the school neighbourhood.
 - (d) The influence of the home. Co-operation between home and school.
 - (e) Unfavourable environmental conditions and their effects : the Backward, Maladjusted, Problem and Delinquent Child.
 - (f) Outside agencies which contribute to children's welfare.
 - (g) Out of school activities and education for leisure.
4. **Opportunities for the Specialised Study of the education of children of one of the following age ranges :—**
 - (a) 2—7 years., (b) 4—9 years or (c) 6—12 years.

Emphasis throughout will be made on the need for continuity in education and for co-operation between school departments.
5. **Practical Teaching**
The whole Course will be based on and related to first hand observation and study of children in and out of school.
6. **Physical Education**
 - (a) The principles of physical education and its place in general education. The aims and scope of physical activity in the primary school.
 - (b) The study and practice of natural movement, skills and agilities, games and swimming. The course will also include an introduction to various types of dance.
 - (c) Some time will be spent on the students' personal development. The main emphasis throughout the training will be children, their general development, interests and way of learning, and the part played by the teacher in challenging their potentialities to promote healthy growth.

There is a link between this subject and health education.

7. Health Education

ART AND CRAFTS

Basic Course for all students

1. **Art and Crafts in the Life of the Community**
Some knowledge of the art and crafts of the past, as evidenced by remaining paintings, buildings, etc., and records.
Appreciation of contemporary work in paintings, buildings, everyday things, etc.
2. **Art and Crafts in the Schools**
The place of art and crafts as an educational medium, and the problems involved in the teaching of these subjects.
3. **The Practice of Art and Crafts**
Experience in the use of as many varied media as possible as a means for expression. Application of this experience for purposes of teaching in schools as well as for personal development.

Ordinary Courses—A, B, C.

The further development of the practice of art and crafts through work in selected media.

1. **Course A**—will be for students who wish to bias their work on the Art side, e.g., pictorial work, book design and illustration, stage design, etc.

2. **Course B**—will be for students who wish to bias their work on the Craft side, e.g., pottery, weaving, embroidery, needlecraft, puppetry, toy-making, etc.
3. **Course C**—will consist of a selection of work from Courses A and B, equivalent to the amount of work required in either Course A or Course B.

Advanced Course

In addition to the further development of the work indicated in the Ordinary Courses, a special study of some aspect of art and crafts will be required.

BIOLOGY

Ordinary Course

Characteristics of living matter. General structure and life history of a representative member of each of the more important classes of the animal kingdom. General structure of a flowering plant. Seasonal study of various plants—especially trees. Interdependence of plants and animals. The organisation and equipment of a nature room or table. Investigation of various communities of plants and animals. Some elementary gardening—care of school plots.

Advanced Course

Investigation of various communities of plants and animals.

Methods of approach to ecology.

A classification of plant and animal kingdoms—identification and simple study of as many types as possible—Use of Flora.

This knowledge to be extended by visits to museum for study of types not easily found in the field.

Interdependence of plant and animal life with special reference to:—

- | | |
|--------------------------|------------------|
| (a) Life in fresh water. | (d) Bacteria. |
| (b) A wood or hedge. | (e) Parasites. |
| (c) Insects and man. | (f) Saprophytes. |
| | (g) The farm. |

Relationship between plants and animals and their environment and relationship between man and other living organisms.

Man and his environment—simple human anatomy, physiology and hygiene.

Planning and management of a garden may take the place of some other portion of the syllabus.

Organization and equipment of a nature room or table.

ENGLISH LANGUAGE AND LITERATURE

Basic Course, to be taken by all students.

1. A basic course in written and spoken English, comprising:—
 - (a) Voice production and training in speech.
 - (b) Comprehension, appreciation and expression work.
2. **1st year.** A short course dealing with different types of narrative.
3. **2nd year.** A short literary course based on work in schools (to include children's literature).
4. A short course on modern literature.

Ordinary Course

This course will endeavour to encourage wide reading and independent study and to increase understanding and appreciation of form in literature.

Language

Spoken and written language as in the Basic Course.

Literature

1. A general study of English drama with a special study of one Morality play, two plays by Shakespeare, one eighteenth century play and one modern play.
2. A general study of the English lyric.
3. A general study of the English novel with special study of one nineteenth century and one contemporary novel.
4. General study of the essay, diary, biography or satire, with special reference to one text.

Advanced Course. Literature

This course will include the Ordinary Course, but will also attempt to give some elementary knowledge of the principles of literary criticism.

1. A short course in the development of literary criticism.
2. A special study of either :—
 - (a) Elizabethan or contemporary dramatists
 - (b) Selected works by major English poets.

GEOGRAPHY

Ordinary Course

1. **Physical Geography**
The earth as a planet. Factors controlling weather and climate. Weather forecasting. Climatic types. Composition of the earth. Rock type. Mountain building. Processes of denudation. The natural vegetation regions of the world.
2. **Cartography and Map Study**
The common map projections. Topographical maps. Prismatic compass and plane table. Construction of Distributional Maps. Weather maps.
3. **Human and Economic Geography**
A study of various hunting, pastoral or agricultural communities in relation to their respective environments. A study of the geographical factors affecting the production, transport and exchange of commodities.
4. **Regional Geography**
 - (a) The British Isles
 - (b) North America
 - (c) Monsoon Lands

Advanced Course

The work of the Ordinary Course and in addition :—

- either** An individual study of an approved subject
or An individual study of a small area easily accessible to the student.

HISTORY

Ordinary Course

1. An outline of English social history.
2. A special study of topics (particularly suitable for classroom use) from either :—
 - (a) Ancient History, **or**
 - (b) Medieval History, **or**
 - (c) Modern History.

Advanced Course

The work of the Ordinary Course and in addition :—

1. A more advanced study of one special period.
2. An individual study of an approved historical subject.

MATHEMATICS

Basic Course (compulsory for all students)

1. The historical and psychological development of number knowledge, number experience arising from children's activities (ages 3—7 years), showing the transition from play experience to more formal work. Money, weight, length, capacity and time treated practically. The basic number bonds and the four rules in number. Household expenditure, rates, taxes, investments, insurance, local and national finance.
2. **Elementary Statistics**
An elementary course of statistics for educational and psychological purposes, including application to educational data of such terms as "mean", "median", "percentile", "standard deviation". Histograms, frequency curves, distribution curves.
3. (Compulsory for students teaching children aged 6—12 years).
General principles underlying the teaching of elementary mathematics and the application of these principles to methods of teaching children up to 11 plus.

Ordinary Course

The ground covered by the Basic Course and in addition :—

1. Linear and quadratic equations, graphs of functions of first, second and third degree. Arithmetical and geometric progressions, simple partial fractions, permutations and combinations, binomial theorem.
2. Elementary geometry of lines and circles and the simpler solid bodies.
3. Elementary Trigonometry, solution of triangles, problems in surveying and navigation.
4. Elementary differential and integral calculus, maxima and minima.

Advanced Course

The work of the Ordinary Course and in addition **one** section selected from the following groups :—

1. **Pure Mathematics**
 - (a) The binomial theorem for any index, exponential and logarithmic series, rational roots of equations.
 - (b) Differentiation and integration of algebraic, trigonometric and exponential functions of x with application to maxima, minima, tangents, normals, approximation and mensuration.
 - (c) Simple analytical treatment of lines, circles, ellipses, parabolas, hyperbolas.
 - (d) Trigonometrical ratios of angles of any magnitude ; ratios of compound angles, products, sums and differences.
2. **The Movement and Stability of Bodies**
A practical treatment of the following :—
Resolution of forces, couples, centre of gravity. Work and Power. Simple machines, friction. Velocity and acceleration. Motion under gravity. Laws of motion. Energy. Elementary hydrostatics.
3. **Mathematics of Science**
Revision of elementary calculus. Logarithms. Laws connecting two variables. Integration by parts. Partial differentiation. Polar curves. Hyperbolic functions. Differential equations. Applications to problems in science.

MUSIC

Ordinary Course

Section A

1. To know from memory :—
 - 20 Nursery Rhymes.
 - 20 Folk and National Songs.
 - 20 Hymns.and to be able to perform them unaccompanied.
2. Practical musicianship, including Improvisation, Sight Reading, Harmony and Form.

Section B

1. Percussion Band Scoring.
2. Violinda.
3. Recorder.
4. Singing games.
5. Gramophone work including **authentic** programme music.
6. B.B.C. Music Broadcasts to Schools.

Advanced Course

1. Musicianship. As for Ordinary Course but to a higher standard.
2. Repertory of songs, as in Ordinary Course, but some should be prepared to be sung and accompanied at the piano by the student.
3. Performance of selected works either for voice or for an instrument at student's choice.
4. A history of music based on a study of representative works for the medium selected in 3 above.

RELIGIOUS KNOWLEDGE

Ordinary Course

1. Outline study of the Old Testament. The History, Faith and Worship of the Jewish people as related to the origins of Christianity. Special study of Genesis, Amos and Isaiah.
2. New Testament. The life and teaching of Jesus, and the early experience of the Church. Special study of St. Luke and 1 Corinthians.
3. The fundamental tenets of Christianity.
4. The experience of Christianity through the ages. Outstanding events and personalities.

LADY MABEL COLLEGE OF PHYSICAL EDUCATION

PRINCIPLES AND PRACTICE OF EDUCATION

1. Aims of Education—general survey of the problems and province of education.
2. The English educational system and its recent history.
3. Characteristics of the developing child as an individual and as a member of a group.
Mental, physical, emotional and social development (with special reference to the part played by movement).
The child in school—the process of learning, individual differences, testing.
4. Principles of teaching and school organisation.
5. Practical teaching.

PHYSICAL EDUCATION AND HEALTH EDUCATION

Physical Education

1. Basic Movement Training and its application to Agility Work in fully equipped gymnasia.
2. Games.
3. Athletics.
4. Swimming.

In all branches the work will be closely related to the observation, teaching and coaching of children, and will include (a) the planning of schemes of work and (b) the planning and maintenance of gymnasia and playing fields and the choice and care of equipment.

Health Education

The course in Health Education will be closely linked with those in Science and Education, as well as being considered part of Physical Education.

1. Health

Growth and functioning of the healthy body.

The maintenance of health in the individual, the community and the school.

2. Ill-health

Conditions leading to ill-health, common diseases of children, infection and contagion. Notifiable diseases.

First Aid. Remedial and Corrective treatment. Rehabilitation. Handicapped children. Special schools.

3. Health Services

National Health Service ; School Medical Service ; other facilities provided by local authorities and voluntary bodies.

DANCE

1. The development of basic movement into the Art of Dance.
 - (a) Creative dance composition.
 - (b) Dramatic movement and the development into acting.
 - (c) Study of the contribution of dance and dramatic movement to the development of the child's personality.
2. Traditional European dances.
3. Modern Ballroom dancing.
4. The study of the relationship of music and dance.
5. Historical dance forms.
6. Ritual, customs and costume.
7. History of dance.

ANATOMY

1. General knowledge of the structure, form and muscular attachments of the bones. Difference in development at different ages and in the two sexes.
2. Form of movements performed at the various types of joints.
3. General knowledge of form and structure of muscles. Group action of muscles.

4. General knowledge of nervous co-ordination, the Central and Peripheral Nervous System and the Autonomic System.
5. General knowledge of the viscera (including the reproductive organs and the ductless glands) and of the circulatory system.
6. More detailed study of the eye, ear, larynx and hand and foot (as preparation for remedial work).
7. Surface anatomy.

PHYSIOLOGY

1. The circulation and chemistry of the blood in relation to blood pressure, pulse beat, respiration and exercise.
2. Respiration, mechanism of and relation to exercise.
3. General knowledge of digestion and excretion.
4. General knowledge of the physiology of reproduction.
5. Regulation, nervous and endocrine.
6. The sense organs, and their importance in education.

ART AND CRAFTS

1. Rhythm in architecture, painting and sculpture as the primary criterion of judgement.
2. Colour, form (including spatial relations) and texture.
3. Representational art in relation to studies of movement with reference to classic and contemporary artists and photographers.
4. Psychological aspects of Art.
5. Draughtsmanship.
6. Criteria of judgement in the theatre and cinema.

Students will be expected to practice drawing, painting, modelling and crafts involving the use of various media, so that they may experience for themselves the creative activities which they will watch and encourage in the child.

BIOLOGY

(Including Social Biology)

1. The physical basis of life. Properties of living matter.
2. Embryology and evolution. Succession in time and taxonomy. Evolution, with particular reference to functional development, of the vertebrate skeleton ; of the vascular system ; of the reproductive system ; of the brain.
3. Heredity and environment. Mendelism. Acquired characters. Endocrinology in relation to behaviour.
4. Ecology. Problems of marine and freshwater life.
5. Applied biology. Animal products. Domestication. Contribution of biology to medicine, e.g., immunity. Animal "pests".
6. Social biology. Consciousness and moral responsibility.

ENGLISH

Literature

1. **Poetry** : a wide selection of poetry will be read from representative anthologies, including anthologies of contemporary verse.
2. **Drama** : a Greek drama, two plays of Shakespeare and a modern play to be studied in some detail, together with an outline of the development of the theatre.
3. **Prose** : selected novels, essays and other prose works.
4. Myth, legend, fairy lore and ballad.

Language

The course will include exercises in sentence structure, precis writing and paraphrasing, the close study and appreciation of prose and verse passages, exercises in simple logic and practice in composition.

Speech and Drama

Emphasis will be laid on the importance of oral and dramatic work throughout the course.

MUSIC

The course is designed to provide some background knowledge and experience of music for all the students.

The general scope of the work has a two-fold aim :—

- (a) to give the students some experience and understanding of the work of the principal masters in the history of music.
- (b) to give the students some experience of the pleasure of making music, individually and together.

Some attempt will be made to cater for the needs of more advanced students, according to the time available, especially in the direction of improvisation and keyboard harmony.

RELIGIOUS KNOWLEDGE

Study of the Old and New Testaments.

The contribution of Christianity to modern thought and action.

Any enquiries should be addressed to:

THE SECRETARY,
INSTITUTE OF EDUCATION,
THE UNIVERSITY,
SHEFFIELD, 10.

Telephone: Sheffield 63891.

