

Coláiste Muire

Senior Cycle Programmes
2016

Senior Cycle Programmes

Transition Year

Leaving Certificate

Leaving Certificate Vocational (LCVP)

Leaving Certificate Applied (LCA)

Transition Year

- One year programme for students who have completed Junior Cert.
- It provides a bridge to enable students to make the transition from the more dependent type of learning associated with the Junior Cert to the more independent learning environment associated with the Senior Cycle.
- It encourages personal and social development and recognises the need for students to grow in independence.

- Writing skills
- Research skills
- Presentation skills
- Study skills
- Maturity
- Confidence
- Independent thinking
- Teamwork

Curriculum

Irish (4)

English (4)

Maths (4)

French / German (4)

Information Technology (3)

Biol / Chem / Phy / Ag S (5)

Business Studies (3)

Heritage Studies (4)

Classical Studies/ Music (2)

Art / H.E. / Tech / H.E (4)

Japanese (2)

Religion (2)

Careers (1)

Chinese (1)

Modules / Additional Activities

- Visit to National Ploughing Championships
- Cardiac First Responders Course
- Outdoor Pursuits – Horizon
- Law Education for Schools
- Transition Drama Festival, Briery Gap Macroom
- CAST Film Festival
- Team Hope Christmas Shoebox Appeal
- Mock Trial Competition
- Visit to the CCJ, Kilmainham Gaol, Irish Aid Centre,
- 3rd Level Open Days – NUIG / UCC / UL & Mary I / UCD / TCD
- Songschool
- YSI
- Industry Visit – Roche, LM Ericsson
- School Bank
- BOI Bond Trader Challenge

Modules /Additional Activities

- Arts Taster Programme - NUIG
- Geographic Investigation – Burren Ed Centre
- Outreach English
- Activities as part Science Week, Engineers Week
- On Being an Archaeologist for a Day
- Mini Company
- Health Fest 2016
- Community Work (1 week)
- Work Placement (1 week)
- Pathology Dept – MWRH Limerick
- Radiography Dept – MWRH Limerick
- Tyndall Lecture (Physics) - UL
- Prep-for-Med Programme UCC
- TYPE TCD
- Easter Camp to China

Selection

- Interview (attendance, punctuality, record of participation)
- Contract of learning

Importance of

- Volunteering / Participating / Positive Attitude

Assessment

- Inspection of Journals
- Class tests / Project work/ Presentation
- Folder term 1
- Portfolio assessment in May

Certification

- Pass / Merit / Distinction

Communication

- Info Meeting / Reports / PT Meeting / Awards Night

TY Fees

€250 Outdoor Education

€250 TY Fee

L.Cert Results - TY 2012/13

- 625 E T, C P (Med – TCD, Undenominated Engineering NUIG)
- 595 A B (Economics & Math Sc –UL)
- 580 A W (Process & Chemical Engineering UCC)
- 570 C H (TSM Eng Lit & History – TCD)
- 565 C M, S R. (Deferred Applied Lang UL, Arts –NUIG)
- 560 A McM (Physiotherapy - UL)
- 555 C D (TSM Eng Lit / Ancient History& Archaeology)
- 545 C B, O O'N (Law & Ger TCD, Physiotherapy UCD)
- 540 L B F, F W. (Repeating, Music CIT Cork School of Music)
- 535 I S (Dental Hygiene TCD)
- 525 A M, N H J. (Veterinary – University of Bristol, Nutritional Sc UCC)
- 520 N B, C R, A H, C M, KO'B
(Psych – UCD, Med Chem – TCD, Bst – UL, Comm & Fr – UCC, Science –
TCD)
- 515 H L (Occupational Therapy TCD)

L.Cert Results TY 2012/13

- 505 M G (Podiatry – NUIG)
- 500 A H, S N. (Occupational Therapy, Ballet-Ballet West Scotland)
- 495 A H (Financial Maths –UL)
- 490 C H, K N. (Gen Nursing – NUIG, Biol & Chemical Sciences UCC)
- 485 Y S (Architecture UCD)
- 480 A McC (Deferred Arts – UCC)
- 475 O Ní B, S M. (Food Marketing & Entrepreneurship UCC, International Langs – UCD)
- 465 L O'M (Computer Science & French – TCD)
- 460 L P (General Nursing DCU)
- 445 J O'C (Science – NUIG)
- 440 C P, O M. (Science with Concurrent Teacher Ed UL, Commerce NUIG,)
- 435 K F (Early Childhood Care & Ed – Mary I)
- 430 A M K (Arts UCD Politics & International Relations / Sociology)

L.Cert Results TY 2012/13

415 ZW (Journalism & New Media - UL)
410 K L, O L (Liberal Arts – Mary I, Arts-UCC)
405 Á M, E H. (Economics UCC, Deferred Entry Science NUIG)
406 370 A M (Liberal Arts – Mary I)
355 M B, M F. (- Computer & Electronic Eng – GMIT)
335 E B (Health & Leisure – Tralee)
315 M McM (Culinary Arts – LIT)
300 C M
290 S O'B (Business & Event Mgt – GMIT)
275 L M (Early Childhood Care & Education , Tralee IT)
235 S B (Music Technology & Sound Production, LCFE) PLC
225 Y B, H L (Nursing Studies-CCL, Hairdressing & Cosmetic Studies LCFE) plc
130 H D (Early Childhood Care & Ed – CCL) PLC

LCA (2)

Distinction: N C - Hairdressing

Merit: K H – Fire & Ambulance Services Access Course – CCL (PLC)

L.Cert Results TY 2012/13

- 505 M G (Podiatry – NUIG)
- 500 A H, S N. (Occupational Therapy, Ballet-Ballet West Scotland)
- 495 A H (Financial Maths –UL)
- 490 C H, K N. (Gen Nursing – NUIG, Biol & Chemical Sciences UCC)
- 485 Y S (Architecture UCD)
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- 435 K F (Early Childhood Care & Ed – Mary I)
- 430 A M K (Arts UCD Politics & International Relations / Sociology)

Please visit

TY hub on Office 365!

Leaving Certificate

The Leaving Certificate is a two year programme.

Students study seven subjects for their Leaving Cert. Examination.

Subjects can be taken at ordinary or higher level.

7 Exam Subjects

Core Subjects (4)

Irish, English, Maths, French or German

Optional Subjects (3)

1. Biology / Accounting / Technology / History / Home Economics
2. Physics / Biology / Business / Geog / Music / Japanese
3. Chemistry / Economics / Art / R.E. / Ag Science / History

Please select 1 optional subject from each group.

1. _____
2. _____
3. _____

Completed forms to be returned to Ms. O'Regan by Thursday 14 April.

Subject Choice

Subjects

Essential subjects?

✓that you are interested in and prepared to work at..

✓that suit your strengths and talents...

Particular combinations...

Manner in which subject is assessed...

Useful Websites

www.careersportal.ie

www.qualifax.ie

www.colaistemuire.ie

Subject Requirements!

A Science subject required for entry to all medical, paramedical, nursing, science and engineering degrees.

Two Sciences are required in

TCD-Med, Dent, Pharmacy, Genetics, Physiotherapy, Science...

UCC-Med, Dent, Pharmacy.

UCAS

Chemistry (C3H) essential

Human Nutrition DIT

Public Health & Nutrition DIT

Dentistry UCC

Medicine UCC

Veterinary UCD

Pharmacy UCC & TCD

- Physics and Chemistry are more numerate sciences. In other words there are a lot more calculations, formulae and equations to be worked on. So ability in maths and a facility with numbers would be needed for these two.
- Biology is more descriptive and involves a lot of learning of names and terms and parts.

From 2017 Practical Experience Requirement for Veterinary Medicine UCD

- Two weeks / 60 hours practical experience with animals in such settings as farms, veterinary practices and animal shelterscovering 2 of 3 species pets, horses and farm animals.

Further details:

- <http://www.ucd.ie/vetmed/caoapplicants/>

Biology

Biology is the science of life and living things. It forms a knowledge base for careers ranging from Oceanography and Ecology to Medicine and Biotechnology.

Students explore the world of living things from micro-organisms to humans.

Uses practical activity and investigation to develop skills and knowledge. Topics such as DNA profiling / genetic screening, physiology and biotechnology

22 mandatory experiments, 3 examined (2)

Ecology field trip 5th yr (Portfolio)

Essential for:

- Genetics UCC HC3
- Human Health & Disease
TCD HC3

Recommended for

- Nursing
- Int. General & Child. Nur
- Midwifery
- Medical & Paramedical
- Psychology

- Marine Science
- Environmental Science
- Biotechnology
- Biomedical Science
- Food Science
- Catering
- Beauty Therapy
- Horticulture
- Agriculture

Chemistry

“....Chemistry deals with the composition of matter, the laws of Chemical change and the relationship between the properties and composition of substances.

In other words it involves everything we use, wear, consume including medicines, plastic, preservatives etc.”

Students have to learn the chemical components of 28 mandatory experiments. 2 questions on practical work must be answered on L.Cert paper.

Essential for:

C3(H)

- Human Nutrition-DIT
- Public Health & Nutrition- DIT
- Dent/Med/ Pharm –UCC
- Pharm - TCD
- Veterinary-UCD
- Pharmacy – RCSI (2017)

Useful for:

- Food Science
- Nutritional Science
- Forensic Science
- Pharmaceutical & Industrial Chemistry
- Chemical Engineering
- Nursing
- Pharmacy
- Medical and Paramedical
- Environmental Science
- All Science courses
- U.C.A.S

Physics

- “....Physics deals with the laws and forces governing natural phenomena which include heat, light, electricity and magnetism. It uses maths and equations to describe and predict events and phenomena. It is of key importance in technology, engineering and paramedical careers e.g.: Radiography/ Physiotherapy.”
- 24 core mandatory experiments of which 4 are offered on L. Cert paper.

Essential for:

- Theoretical Physics TCD (H)B3

Recommended for:

- Electronic Engineering
- Radiography esp. UCD
- Physiotherapy
- Optics
- Pilot
- Architecture
- UCAS

Agricultural Science

...science and technology underlying the principles and practices of agriculture.

Aspects

- Soils
- The general structure & function of plants
- Farm Crops – cereal and root / grassland
- Trees and shelter
- Structure & function of the animal body
- The cow, sheep, horse & pig

Exam Structure

Written Exam

An assessment of the work of candidate during the course

Practical Assessment (25%)

- Identification of plant & animal types associated with agriculture
- Practical experience with crops , livestock, house & farmyard layouts.
- Investigations carried out relating to ecology, soil science, animal physiology, genetics & microbiology.

....students are interviewed by an External Examiner

Accepted as a Science subject for most science, medical, healthcare and nursing courses

except

- UCC- for Dentistry, Medicine & Pharmacy
- RCSI – for Physiotherapy & Pharmacy
- TCD – Radiation Th, HHD, Human Gen, Nanoscience, Chem & Mol M

Useful

- Agricultural Science
- Animal Science
- Dairy Business
- Agri- Environmental Sciences
- Veterinary Medicine / Nursing
- Horticulture, Landscape & Sportsturf Mgt

Accounting

- Concerned with the preparation, recording, extraction, presentation & analysis of financial info for the purpose of making economic decisions.
- Course also involves a Management Accounting section where the student will learn how to analyse business costs and how to prepare budgets.

Highly recommended for:

- Accountancy courses
- Banking
- Clerical work

Essential for:

- Commerce (Accounting)
NUIG ...C1(H)

Useful for

- Hotel Management
- Marketing
- Taxation Consultancy
- Computer / Business studies
- Insurance
- Corporate Law
- Reception
- Auctioneering
- Advertising
- Journalism

Economics

....is the study of how people manage limited resources such as money to meet their goals.

Microeconomics

How people decide what they will / not buy.

How firms / businesses will try to take advantage of consumers habits to maximise profits.

How multiple businesses in a market will price their goods based on their competitors and costs.

Macroeconomics

How the government handles the economy as a whole / policies.

Stable economic growth / Minimising national debt

Encouraging employment / Fiscal policy/International Trade/

Banking

Useful for:

- Banking
- Finance degree
- Financial Maths & Econ
- Law
- Social Science
- Hotel Management
- Journalism
- Marketing
- Accountancy/Business/Commerce
- Architecture
- Environmental Science

Often offered in third level:

- Politics
- Sociology
- Modern Languages
- European Studies
- History

Business

Looks at

- People in Business
- Setting up a business and developing a new product or service
- Skills & activities necessary for good management practice
- Impact of technology, foreign trade, global firms & competition, business structures & the national economy

Useful for:

- Banking
- Industry
- Marketing
- Merchandising
- Insurance
- Taxation
- Hotel Management
- Reception
- Business Studies
- Secretarial / Clerical work

Technology

A wide range of new Technologies are now part of everyday life.

Technology gives students a basic understanding of the principles of design, manufacture, and project management.

Students studying Technology-

- Design and manufacture projects using ICT & a wide variety of materials, components and equipment – including computer controlled machines.
- Become familiar with Technological developments in areas such as ICT, mobile communications, digital media, etc.

Structure of Technology Course

Core (Study all)

- Design
- Materials
- ICT
- Structures & Mechanisms
- Electronics
- Graphics
- Project Management

+

Options (Pick 2)

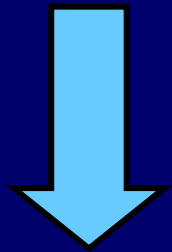
- ICT
- Electronics
- Control Technology
- Materials
- Manufacturing Systems

+

Project + Folder

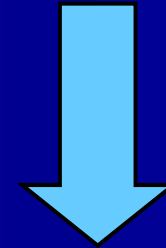
Assessment

Project + Folder



50%

Final Exam



50%

Thematic brief for project is issued in October of Leaving Cert year.
Folder and project executed in class from October until March.

Thematic Brief 2013 (HL)

“The smallest act of kindness is worth more than the grandest intention” (Oscar Wilde)

Fundraising is the process of soliciting and gathering voluntary contributions for worthwhile causes.....

Thematic Brief 2013 (contd.)

With a focus on modern materials, processes and technologies

Design and make an interactive device which facilitates the collection of donations for a charitable cause of your choice.

The device should stimulate interest in the identified cause and encourage the giving of donations.....

Your solution should include electro-mechanical movement in operation and should be well presented.

Thematic Brief 2013

(solutions presented by students)

Fundraising

➤ Anna has designed a coin box in the shape of a flower for the sunshine charity. When a coin is inserted the flower 'grows' and it plays the tune 'you are my sunshine'.



Thematic Brief 2013 (solutions presented by students)

Fundraising

Ashling picked Trocaire as her third world charity and depicted an image from a developing country in her coin donation box. When a coin is inserted into the well, the disc rotates displaying a message, the lights are activated and music is played.



Thematic Brief 2013 (solutions presented by students)

Fundraising

Eilis has picked the ISPCA as her chosen charity. When money is inserted into the roof of the kennel, a cat comes out the door and music plays. The cat retreats again after a few seconds.



Thematic Brief 2013

(solutions presented by students)

Fundraising

Alanna designed a fundraising box in the shape of a sheep for the charity Gorta. When coins are inserted into the sheep the mouth moves and it 'baa's



Thematic Brief 2013

(solutions presented by students)

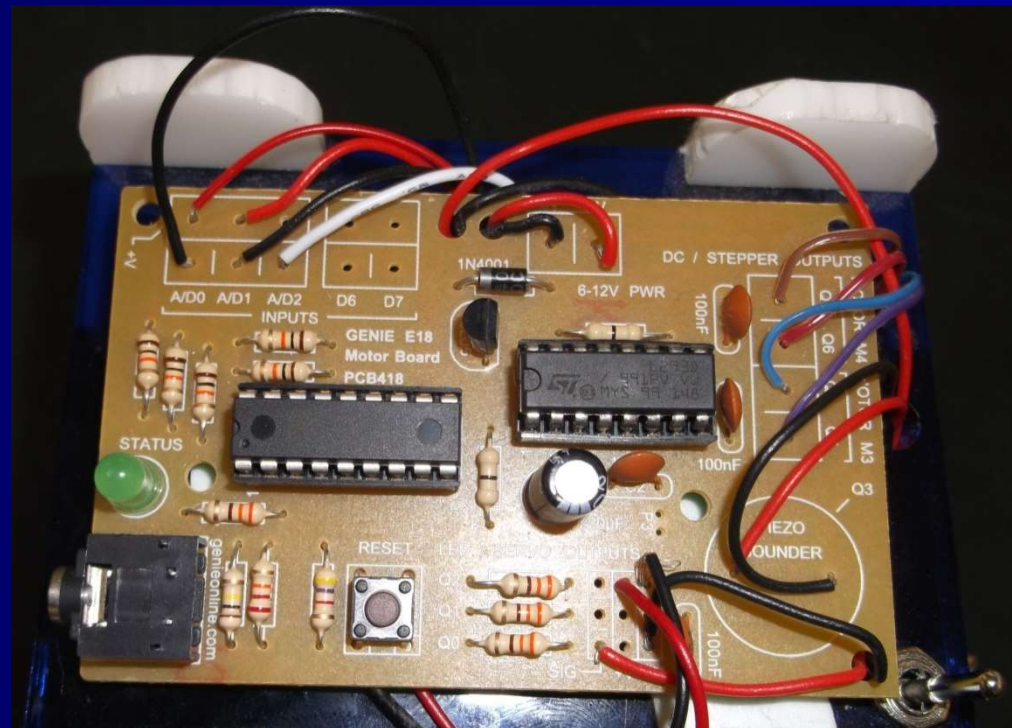
Fundraising

Rianat designed a fundraising coin box for the Jack & Jill Foundation based on the Jack & Jill Nursery Rhyme. When a coin is inserted into the slot music plays and 'Jack & Jill go up the hill'



Operation of Projects

The projects you have seen contain a PIC (Peripheral interface controller) and are programmed using a computer. The programme is then downloaded to a chip contained in the project.



Subject requirement

➤ Technology is now accepted in place of a science subject for entry to

- Engineering – NUIG, UCC, Maynooth
- Some Science / Engineering – UL , D.I.T.

I have not studied Technology (J Cert) ?

Technologically minded

Creative – Prefer problem solving to rote learning

Always “fixing things”

Comfortable with numbers and formula

Graphically inclined – Argos assembly instructions

Organised – time management of project

Possible Career Paths



Engineering



I.C.T, Graphic Design & Multimedia

Web Design



Product Designers



Planning & Environmental Management



Animation / games development



Education (Technology!)

Home Economics S+S

Core

- Food Studies
- Resource Mgt & Consumer Studies
- Social Studies

Elective (1)

- Textiles, Fashion & Design
- Social Studies
- Home Design & Mgt

20% coursework journal submitted prior to exam

Useful for:

- Catering
- Hotel Management
- Human Nutrition/Dietetics
- Food Science
- Food Technology
- Nutritional Science
- Environmental Health
- Occupational Therapy
- Fashion Design
- Social Science
- Social Studies/Childcare

A good Home Economics Student displays....

- An interest in cooking, balancing flavours and tastes, and nutrition with value for money.
- An interest in clothes design, materials, styles and even a desire or skill in making some.
- A flair for design of houses, kitchens and other areas to be functional and effective.
- An informed interest in current affairs, social issues and family life and a capacity to write on these supporting their views.

Geography

- ...study of people, their environment and the interaction between the two.
- Topics such as rocks, soils, oceans, population movements, map reading and economic activities.

Geographical Skills

- **Info Gathering:** map reading, statistics, charts
- **Presenting Info:** using diagrams, maps, writing
- **Evaluating Info:** fact from opinion, informed judgements, solutions to problems.

Geographic Investigation (20 %)

Prepare in May

Fieldwork Sept - Nov

Group work

Direction / Instruction

List of Geographical Investigation Topics for 2016

1. A study of local traffic patterns.
2. A local environmental issue.
3. Changing land-use in a local area – a study of spatial change and change through time.
4. A local demographic study.
5. Test the hypothesis that erosion is an active process in a fluvial or glacial or coastal environment.
6. Investigate how geology effects the landscape in a local area.

**Accepted as:
Science subject in**

TCD

- Science Degree
- Pharmacy
- Medicinal Chemistry
- Earth Sciences

UCD (from 2014)

- Science Degree
- Archaeology & Geology Degree

Useful for

- Archaeology
- Civil Engineering
- Architecture
- Meteorology
- Tourism/Heritage studies
- Horticulture
- Agriculture
- Surveying
- Marine Science
- Earth & Ocean Sciences
- Environmental Science
- Auctioneering/Estate Agent

History

Has moved away from politics to encompass social and cultural history. (1492 – 1993)

...more choice, research work, less emphasis on memorising...

- Special Topic Q (20%) Submitted by April L.C
- Europe (6) / Ireland (6) select 2 from both!
- Document based question
(Dictatorship & Democracy)

...exam < 3 hrs ...

Special topic

Draft in 4th year (1500)

...of historical importance...

3 sources (e.g. books, documentation, newspaper articles, interview, websites..)

Topics...

- Margot Turner, a British military nurse imprisoned in a Japanese POW camp during WW2.
- The Rineen Ambush during War of Independence 1919 – 1921
- Hannibal's victory over the Romans in the Battle of Cannae 216 BC

Useful for:

- History, Politics, Sociology
- Journalism
- European Studies
- Law
- Tourism/Heritage Studies

Art

Useful for:

- Art & Design
- Animation
- Advertising
- Architecture
- Marketing
- Occupational Therapy
- Industrial Design
- Primary Teaching
- Fashion Design
- Video Production
- Photography
- Social Studies/Childcare
- History of Art & Arch
- Art Therapy

Exam

Life Drawing (1 hr)

Craft / Design (5/2 hrs)

Imaginative Composition / Still life (2.5 hr)

May

History of Art (written exam) 150 / 400 marks

Music

Listening 25%

4 set works, Irish music & general listening skills

Composition 25%

Melody writing and harmony

Practical 25% (Mar / Apr)

Play or sing

Play 3 on 1 or 2 on 2. Groups also!

Plus

Elective 25% in one of above

Listening - Research a topic e.g. Film music

Composition - Submit a portfolio of compositions

Practical - Perform double the required amount of pieces for the Core Practical or option of Music Technology (Sibelius) or Conducting the school choir.

Useful for:

- Music Degree
- Irish Music & Dance
- Music Technology
- Primary Teaching
- Speech & Lang. Therapy
- Film Studies
- Drama & Theatre Studies (with Music)
- Arts Administration
- Music Therapy

Japanese

Communicative Proficiency
(greetings, personal details..)

Language Awareness
(spoken & written text)

Cultural Awareness
(everyday activities, customs, entertainment..)

Common Syllabus / Assessment at H & O level

Religious Education

The course looks at World Religion and the major faiths. It looks at the development of Christian thinking and Christian practice. It looks at ethical issues and morality and the dividing line between the personal and the public, the church and the state.

It develops critical skills for examining values, morality and religion. It can raise the level of informed debate in society, in business and in the church.

20% of marks for journal submitted prior to exam.

Useful for careers in

Social Work, Politics, Journalism, Broadcasting, Church related Ministries.

Example of Courses

R.E. & Eng / Hist / Mus / Ir

Arts / Liberal Arts

H.E. & R.E.

Mater Dei

Maynooth / U.L

St. Angela's

Leaving Cert. Vocational Programme

In addition to the 4 core and 3 optional subjects offered as part of the Leaving Cert, students pursuing the Leaving Cert Vocational Programme study two link modules

Preparation for Work

Local employment opportunities
Job-seeking skills
Career Investigation
Work Placement

Enterprise Education

Enterprise skills
Local Business Enterprises
Local Voluntary Organisations / Community Enterprise
An Enterprise Activity

Selection of students for LCVP

To be eligible for the above programme students must select one of the following combinations of optional subjects:

- Phy & Tech
- H.E., Ag Sc., Biol (any 2)
- Biol or Chem or Phy (any 2)
- Ag Sc & Chem or Phy
- Ag Sc & Acc or Econ or Bus
- Ag Sc & Tech
- Tech & Bus or Acc or Econ
- H.E. & Bus or Econ or Acc
- Art & Bus or Acc or Econ
- Music & Bus or Acc or Econ
- Acc or Bus or Econ (any 2)
- H.E. & Art

Assessment / Certification

Portfolio of Coursework 60%
Written Exam 40%

Certification

Distinction	(66)	H4 (60<70)
Merit	(46)	H6 (40<50)
Pass	(28)	O4 (60<70)

Leaving Cert. Applied (LCA)

Leaving Cert. Applied focuses on the needs and interests of the students using a variety of methodologies.

It is a self contained two year course designed to meet students needs not adequately catered for by either the Leaving Certificate or Leaving Certificate Vocational Programme.

Curriculum

Vocational Preparation:

- Vocational Preparation and Guidance (incl. wk exp)
- *English and Communication

Vocational Education:

- *Mathematical Applications
- *Vocational Specialism
IT & OACC

General Education:

- Arts Education
- *Social Education
- *Languages
- Leisure & Recreation

Elective Courses

- Hair and Beauty
- Science

Course Design / Assessment

Sessions: (4)

September – January

February – June

3 modes of Assessment

Modules (44) – 62 Credits (31%)

Task (7) – 70 Credits (35%)

Final Examination – 68 Credits (34%)

Total: 200 Credits (100%)

Certification

Three Levels:

- Pass 60 – 69% (120-139 credits)
- Merit 70 – 84% (140-169 credits)
- Distinction 85 – 100% (170-200 credits)

Options after L.C.A

