



## **BBSI University Foundation Courses in Science, Technology, Computers & IT**

The BBSI University Foundation Course in Science, Technology, Computers & IT is carefully designed to enable students with an Intermediate level in English or above to study the concepts and learn the skills required for careers in science and technology, while acquiring the academic study skills required for undergraduate entry to a UK university degree course. While preparing for university, therefore, participants can also gain worthwhile technical English and science qualifications. Depending on the study option selected, awards include either a BBSI Higher-Certificate or Diploma qualification, and the International Computer Driving License® (ICDL<sup>†</sup>) qualification. The course syllabus includes extensive IELTS<sup>‡</sup> Examination Preparation.

**UK University Placement.** While undertaking their university foundation course and acquiring the academic study skills necessary for university, students are provided with extensive counselling and guidance in all aspects of study at British universities, and are given full assistance with the British university application process. All Foundation students who successfully complete their course are assured of a university place prior to graduation from BBSI.

**Study Options.** There are 2 study options for this course. For those students with excellent High-School grades and a sound Intermediate level in English, we offer a 24-week Higher-Certificate programme, Study Option 1, which enables participants to develop their technical, professional and academic skills to a more advanced level of proficiency in shorter time. However, for those students with a lower, Intermediate level in English, who require more emphasis initially on developing their academic English, technical English and academic study skills prior to the introduction of more advanced specialised studies, we offer a longer, 36-week Diploma programme that builds more gradually in professional intensity and specialisation. The course is conducted around a busy social and activity programme, and the maximum class size is 12, which can be extended to 15 during peak periods.

### **Study Option 1**

The shorter, Higher-Certificate study option is designed for those students with excellent High School grades and a sound Intermediate level in English or above. The course is of 24 weeks duration.

#### **Course Outline**

**Minimum English Entry Level:** IELTS 5.0 (*Intermediate*)

**Course Duration:** 24 weeks (2 terms)

**Course Designation:** UST 24

**Course Entry Dates:** September, January, March or June.

**Lessons Weekly:** 30

**Minimum Age:** 17 years



### Course Structure & Content:

20 lessons weekly in Science, Technology, Computers & IT  
10 lessons weekly in Academic Study Skills<sup>+</sup> & IELTS Examination Preparation

### Award:

BBSI Certificate in Science, Technology, Computers & IT  
(*continuous assessment*)

### Optional External Examination\*:

IELTS [Academic] (*examinations monthly*)

### Course Objectives.

 The course objectives are to:

- \* fully prepare students academically for entry to a first degree course related to science, technology, computers, computing and IT at a university in the UK
- \* have completed the university-application process so that students secure a university placement in the UK on the undergraduate degree course of their choice
- \* acquire the necessary academic study skills for undergraduate study at a university in the UK
- \* develop an understanding of current theory and practice in science, technology and engineering
- \* acquire a sound, professional understanding and knowledge of science, technology, computers, computer software, IT and engineering concepts
- \* develop effective technical English and professional communication skills
- \* build appropriate technical vocabulary related to science, technology and engineering
- \* acquire the necessary communication skills for a career related to science, technology or engineering
- \* develop confidence and fluency in the English language to Upper-Intermediate Level
- \* prepare participants for the IELTS (Academic) examination

**Course Elements.** In addition to providing students with a thorough and comprehensive grounding in technical English and professional communication skills, Study Option 1 incorporates all the following specialised elements:

#### **Applied Mathematics**

- |                                  |                                   |
|----------------------------------|-----------------------------------|
| * <i>statistics</i>              | * <i>number</i>                   |
| * <i>scale &amp; ratio</i>       | * <i>probability theory</i>       |
| * <i>algebra &amp; equations</i> | * <i>space &amp; trigonometry</i> |

#### **Applied Physics & Engineering**

- |                                   |  |
|-----------------------------------|--|
| * <i>materials &amp; stresses</i> | * <i>force &amp; effect</i>                            |
| * <i>light &amp; radio waves</i>  | * <i>nuclear physics</i>                               |
| * <i>engineering</i>              | * <i>electrics, electromagnetism &amp; electronics</i> |

#### **Technology**

- |                                  |   |
|----------------------------------|---|
| * <i>materials &amp; systems</i> | * <i>applications</i>                         |
| * <i>security</i>                | * <i>human factor/needs/values/aesthetics</i> |



### **General Science**

- \* *research methods*
- \* *writing scientific reports*

- \* *reading & interpreting scientific information*
- \* *problem solving*

### **Computers & IT**

- \* *database systems*
- \* *binary system*
- \* *viruses*
- \* *word processing*
- \* *types of computer*
- \* *Microsoft Office™*
- \* *business modelling*
- \* *SQL*
- \* *computer configuration*
- \* *electronic communications*

- \* *spreadsheets*
- \* *presentation software*
- \* *operating systems*
- \* *object-oriented programming with Java*
- \* *publishing in HTML*
- \* *Website-design theory*
- \* *information & effective communication*
- \* *using a computer effectively & managing files*
- \* *concepts of information & computing technology*

## **Study Option 2**

The longer, Diploma study option is designed for those students with excellent High School grades and a lower, Intermediate level in English who require more emphasis initially on developing their technical English and professional communication skills prior to the introduction of more advanced training. The course is of 36 weeks duration and builds more gradually in intensity and specialisation.

**Minimum English Entry Level:** IELTS 4.5 (*Intermediate*)

**Course Duration:** 36 weeks (3 terms)

**Course Designation:** UST 36

**Course Entry Dates:** September, January, March or June.

**Lessons Weekly:** 30

**Minimum Age:** 17 years

### **Course Structure & Content:**

#### **Term 1**

- 20 lessons weekly in General English
- 10 lessons weekly in Computers, Computing & IT Skills  
(*includes the full ICDL syllabus*)

#### **Terms 2 & 3**

- 20 lessons weekly in Science, Technology, Computers & IT
- 10 lessons weekly in Academic Study Skills<sup>+</sup> & IELTS Examination Preparation



### **Awards:**

BBSI Diploma in Science, Technology, Computers & IT  
*(continuous assessment)*

NCFE Certificate in Science, Technology, Computers & IT  
*(continuous assessment)*

### **Optional External Examinations\*:**

International Computer Driving Licence®  
IELTS [Academic] *(examinations monthly)*

### **Course Objectives.** The course objectives are to:

- \* fully prepare students academically for entry to a UK university degree course related to science, technology and IT
- \* have completed the university-application process so that students secure a UK university placement on the undergraduate degree course of their choice
- \* acquire the necessary academic study skills for undergraduate study at a UK university
- \* develop an understanding of current theory and practice in science, technology and engineering
- \* acquire a sound, professional understanding and knowledge of science, technology, computers, computer software, IT and engineering concepts
- \* develop effective technical English and professional communication skills
- \* build appropriate technical vocabulary related to science, technology and engineering
- \* acquire the necessary communication skills for a career related to science, technology or engineering
- \* develop confidence and fluency in the English language to Upper-Intermediate Level
- \* prepare participants for the IELTS (Academic) examination
- \* prepare participants for the International Computer Driving Licence® award *(optional)*

**Course Elements.** In addition to providing students with a thorough and comprehensive grounding in technical English and professional communication skills, the Study Option 2 syllabus incorporates all the following specialised elements:

#### ***Applied Mathematics***

- |                                  |                                   |
|----------------------------------|-----------------------------------|
| * <i>statistics</i>              | * <i>number</i>                   |
| * <i>scale &amp; ratio</i>       | * <i>probability theory</i>       |
| * <i>algebra &amp; equations</i> | * <i>space &amp; trigonometry</i> |

#### ***Applied Physics & Engineering***

- |                                   |  |
|-----------------------------------|--|
| * <i>materials &amp; stresses</i> | * <i>force &amp; effect</i>                            |
| * <i>light &amp; radio waves</i>  | * <i>nuclear physics</i>                               |
| * <i>engineering</i>              | * <i>electrics, electromagnetism &amp; electronics</i> |

#### ***Technology***

- |                                  |   |
|----------------------------------|---|
| * <i>materials &amp; systems</i> | * <i>applications</i>                         |
| * <i>security</i>                | * <i>human factor/needs/values/aesthetics</i> |



### **General Science**

- \* *research methods*
- \* *writing scientific reports*

- \* *reading & interpreting scientific information*
- \* *problem solving*

### **Computers & IT**

- \* *database systems*
- \* *binary system*
- \* *viruses*
- \* *word processing*
- \* *types of computer*
- \* *Microsoft Office™*
- \* *business modelling*
- \* *SQL*
- \* *computer configuration*
- \* *electronic communications*

- \* *spreadsheets*
- \* *presentation software*
- \* *operating systems*
- \* *object-oriented programming with Java*
- \* *publishing in HTML*
- \* *Website-design theory*
- \* *information & effective communication*
- \* *using a computer effectively & managing files*
- \* *concepts of information & computing technology*

A week-by week syllabus of the entire 36-week University Foundation Diploma programme in Science, Technology, Computers & IT is included below. However, the course content for those wishing to study the 24-week, Higher-Certificate study option would depend upon the precise time of year that students elect to study. For example, those seeking to commence their course in January or June would follow the syllabus outlined in weeks 13-36, whilst those commencing the course in either March or September, would study weeks 25-36 followed by weeks 13-24.

**Certificate, Higher-Certificate, Diploma and Pre-Masters** versions of the above course are also available.

### **† International Computer Driving License®**

The International Computer Driving License® (ICDL) is an internationally-recognised qualification that verifies practical competence in computer skills in either a professional or personal capacity and is the fastest growing international IT user-qualification. It is designed specifically for those who wish to gain a benchmark qualification in computing to enable them to develop their IT skills and enhance their career prospects. No prior knowledge of IT or computer skills is needed. The ICDL raises an individual's level of competency in IT & computing skills; improves personal productivity, both at home & at work; requires no prior knowledge of IT or computer skills; and provides individual's with an internationally-recognised qualification.



### ‡ IELTS

IELTS is the International English Language Testing System. It measures ability to communicate in English across all 4 language skills – listening, reading, writing and speaking – for people who intend to study or work where English is the language of communication. IELTS is the preferred English language assessment for universities in English-speaking countries worldwide. Examinations take place monthly in Bournemouth and a place can be secured at the time of booking your course with BBSI. Candidates must book for the examination at least 6 weeks before each examination sitting.

### + Academic Study Skills

Students require sound academic study skills in preparation for their university degree course:

- effective writing ability
- listening comprehension & note-taking
- ability to transfer information in note form to essay format
- understanding the conventions of bibliographies, footnotes & quotations
  - classroom, self-study & personal organisational skills
  - effective reading-comprehension
  - effective time-management
  - research techniques

*\* Examination fees for those seeking to undertake external examinations are not included in the BBSI course fees.*

***The following University Foundation courses are also available at BBSI:***

- \* Management & Business Administration
- \* Marketing, Advertising & Public Relations
- \* Finance & Financial Services
- \* Hospitality Management & Tourism
- \* Legal Studies, International & Commercial Law

BBSI courses are carefully designed and structured at different language levels to enable international students to develop all 4 English language skills simultaneously, while developing their professional communication skills and professional knowledge in academic, vocational or professional context, in the specialised subject of their choice. Students therefore have the flexibility to focus on either academic or vocational progression, depending on their personal training needs and particular learning objectives.

Courses can be booked on-Line @ [www.bbsi.co.uk](http://www.bbsi.co.uk)

Alternatively, contact BBSI by e-mail at [info@bbsi.co.uk](mailto:info@bbsi.co.uk)



# BBSI University Foundation Courses in Science, Technology, Computers & IT



## Weekly Syllabus

	<b>Computing and Information Technology</b> <i>(10 lessons)</i>	<b>English Language Content</b> <i>(20 lessons)</i>
Week 1 <b>(First week of Term)</b>	<i>Using Computers - managing files; adjusting setting; manipulating files; computer security; the world wide web; email</i>	<i>grammar, vocabulary reading, listening &amp; speaking</i>
Week 2	<i>Word Processing - formatting</i>	<i>grammar, vocabulary reading, listening &amp; speaking</i>
Week 3	<i>Word Processing - mail merge</i>	<i>grammar, vocabulary reading, listening &amp; speaking</i>
Week 4	<i>Presentation - working with charts; slideshows &amp; transitions</i>	<i>grammar, vocabulary reading, listening &amp; speaking</i>



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**BBSI University Foundation Courses**  
in  
**Science, Technology, Computers & IT**



Weekly Syllabus

	<b>Computing and Information Technology</b> <i>(10 lessons)</i>	<b>English Language Content</b> <i>(20 lessons)</i>
Week 5	<i>Spreadsheets - elements &amp; principles; editing; formatting</i>	<i>grammar, vocabulary reading, listening &amp; speaking</i>
Week 6	<i>Spreadsheets - multiple sheets; charts</i>	<i>grammar, vocabulary reading, listening &amp; speaking</i>
Week 7	<i>Spreadsheets - review Database - tables</i>	<i>grammar, vocabulary reading, listening &amp; speaking</i>
Week 8	<i>Databases - editing; queries</i>	<i>grammar, vocabulary reading, listening &amp; speaking</i>



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### Weekly Syllabus

	<b>Computing and Information Technology</b> <i>(10 lessons)</i>	<b>English Language Content</b> <i>(20 lessons)</i>
Week 9	<i>Databases - reports; forms</i>	<i>grammar, vocabulary reading, listening &amp; speaking</i>
Week 10	<i>Concepts - hardware &amp; software</i>	<i>grammar, vocabulary reading, listening &amp; speaking</i>
Week 11	<i>Concepts – networks and the internet; computers in everyday life; safety &amp; security</i>	<i>grammar, vocabulary reading, listening &amp; speaking</i>
Week 12	<i>Course review</i>	<i>grammar, vocabulary reading, listening &amp; speaking</i>

*\*Please note that presentation subject order may vary in weeks 7 to 12*



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## BBSI University Foundation Courses in Science, Technology, Computers & IT



### Weekly Syllabus

	<b>Science</b> (10 lessons)	<b>Computing and Information Technology</b> (10 lessons)	<b>Academic Skills &amp; IELTS Preparation</b> Typical 12 week programme (10 lessons)
Week 13 (First week of Second Term)	<p style="text-align: center;"><i>general introduction</i></p> <p><b>Chemistry</b> – introduction to Science, Technology, Computers &amp; IT</p> <p><b>Physics</b> – atomic structure/bonding</p> <p><b>Mathematics</b> – laws of motion</p> <p><b>General Science</b> – equations of motion</p> <p><b>Skills</b> – the water cycle; DVD comprehension; issue assignment one</p>	<p><b>Computing Theory</b> - the user; language focus</p> <p><b>Database</b> - RDMS introduction</p> <p><b>Mathematics</b> - introduction &amp; binary addition</p>	<p style="text-align: center;"><i>reading strategies for IELTS</i></p> <p style="text-align: center;"><i>comparing &amp; contrasting language, cohesive devices</i></p> <p style="text-align: center;"><i>logical &amp; grammatical links</i></p>
Week 14	<p><b>Chemistry</b> – the periodic table</p> <p><b>Physics</b> – electricity &amp; current</p> <p><b>Mathematics</b> – fractions &amp; percentages</p> <p><b>General Science</b> – Apollo 13</p> <p><b>Skills</b> – ‘We’ve come a long way’ reading &amp; writing practice</p>	<p><b>Computing Theory</b> - computer architecture; language focus</p> <p><b>Database</b> - E/R diagrams</p> <p><b>Mathematics</b> - binary subtraction</p>	<p style="text-align: center;"><i>listening skills for IELTS multiple choice &amp; note completion</i></p> <p style="text-align: center;"><i>IELTS writing: Interpreting data in graphs &amp; charts</i></p>
Week 15	<p><b>Chemistry</b> – states of matter</p> <p><b>Physics</b> – static electricity</p> <p><b>Mathematics</b> – approximation</p> <p><b>General Science</b> – solar system</p> <p><b>Skills</b> – black holes; white holes &amp; wormholes; listening &amp; taking notes; issue assignment two</p>	<p><b>Computing Theory</b> - computer applications; language focus</p> <p><b>Database</b> - normalisation</p> <p><b>Mathematics</b> - binary multiplication</p>	<p style="text-align: center;"><i>reading for IELTS matching &amp; sentence completion tasks</i></p> <p style="text-align: center;"><i>language for describing places</i></p> <p style="text-align: center;"><i>further note completion skills</i></p>
Week 16	<p><b>Chemistry</b> – types of reactions</p> <p><b>Physics</b> – types of energy</p> <p><b>Mathematics</b> – angles, bearings &amp; maps</p> <p><b>General Science</b> – structure of the earth</p> <p><b>Skills</b> – microbes &amp; pathogens</p>	<p><b>Computing Theory</b> - peripherals; language focus</p> <p><b>Database</b> - intro to MySQL</p> <p><b>Mathematics</b> - binary division</p>	<p style="text-align: center;"><i>interpreting &amp; comparing data</i></p> <p style="text-align: center;"><i>reading skills – skimming &amp; scanning techniques</i></p> <p style="text-align: center;"><i>writing skills including presenting solutions to problems</i></p>



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## BBSI University Foundation Courses in Science, Technology, Computers & IT



### Weekly Syllabus

	<b>Science</b> <i>(10 lessons)</i>	<b>Computing and Information Technology</b> <i>(10 lessons)</i>	<b>Academic Skills &amp; IELTS Preparation</b> <i>Typical 12 week programme</i> <i>(10 lessons)</i>
Week 17	<p><b>Chemistry</b> – rates of reactions  <b>Physics</b> – work &amp; power  <b>Mathematics</b> – satellites &amp; GPS  <b>General Science</b> – volcanoes &amp; rocks  <b>Skills</b> – micro-organisms in production &amp; industry</p>	<p><b>Computing Theory</b> - interview/ex-student;  <i>language focus</i>  <b>Database</b> - SQL  <b>Mathematics</b> - hexadecimal arithmetic</p>	<p><i>IELTS listening skills for labeling a diagram,  table completion &amp; short answers</i></p>
Week 18	<p><b>Chemistry</b> – isotopes &amp; radioactivity  <b>Physics</b> – waves  <b>Mathematics</b> – the sound barrier &amp; the speed of light  <b>General Science</b> – structure of the ear &amp; sound  <b>Skills</b> – Marie Curie internet project; issue assignment three</p>	<p><b>Computing Theory</b> - operating systems;  <i>language focus</i>  <b>Database</b> - SQL  <b>Assembly language</b> - intro</p>	<p><i>speaking for IELTS Part 3 – general  discussion</i>  <i>IELTS reading skills for multiple choice &amp;  summary completion</i></p>
Week 19	<p><b>Chemistry</b> – the carbon/nitrogen cycle  <b>Physics</b> – electromagnetic waves  <b>Mathematics</b> – sequences  <b>General Science</b> – sunshine; DVD comprehension  <b>Skills</b> – sunshine DVD comprehension; issue assignment four</p>	<p><b>Computing Theory</b> – graphic user interfaces;  <i>language focus</i>  <b>Database</b> - SQL  <b>Assembly language</b> - practice</p>	<p><i>analysing IELTS writing questions</i>  <i>writing skills for structuring an argument,  providing evidence &amp; supporting points in an  argument-led essay</i></p>
Week 20	<p><b>Chemistry</b> – acids, bases &amp; salts  <b>Physics</b> – electromagnetism, motors &amp; generators  <b>Mathematics</b> – the metric vs. imperial system  <b>General Science</b> – carbon emissions &amp; renewable energy  <b>Skills</b> – carbon emissions &amp; renewable energy cont;  DVD comprehension Planet Earth</p>	<p><b>Computing Theory</b> - application programs;  <i>language focus</i>  <b>Database</b> - SQL</p>	<p><i>IELTS listening practice for note completion</i>  <i>speaking for IELTS Part 2 &amp; 3: long turn &amp;  discussion</i></p>



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### Weekly Syllabus

	<b>Science</b> <i>(10 lessons)</i>	<b>Computing and Information Technology</b> <i>(10 lessons)</i>	<b>Academic Skills &amp; IELTS Preparation</b> <i>Typical 12 week programme</i> <i>(10 lessons)</i>
Week 21	<p><b>Chemistry</b> – metals &amp; REDOX reactions  <b>Physics</b> – magnetism  <b>Mathematics</b> – data  <b>General Science</b> – inventions  <b>Skills</b> – presentation assignment three issue assignment five</p>	<p><b>Computing Theory</b> - multimedia;            language focus  <b>Database</b> - SQL</p>	<p><i>IELTS reading skills: differentiating false &amp; not given answers            sentence completion &amp; matching tasks reading practice</i></p>
Week 22	<p><b>Chemistry</b> – industrial chemistry  <b>Physics</b> – mechanics &amp; materials  <b>Mathematics</b> – temperature scales; celsius, fahrenheit &amp; kelvin  <b>General Science</b> – severe weather &amp; weathering  <b>Skills</b> – prediction</p>	<p><b>Computing Theory</b> - interview/computing;            support officer; computing support;            language focus</p>	<p><i>writing skills: practice in interpreting data,            expressing disagreement &amp; discussing implications</i></p>
Week 23	<p><b>Chemistry</b> – esters, flavours &amp; tastes  <b>Physics</b> – progress test part one  <b>Mathematics</b> – progress test part two  <b>General Science</b> – evolution of design  <b>Skills</b> – evolution of design continued</p>	<p><b>Computing Theory</b> - software engineering;            people in computing; language focus</p>	<p><i>further writing skills development, including describing a process, introductory sentences &amp; marking stages</i></p>
Week 24	<p><b>Chemistry</b> – metals; extraction &amp; uses  <b>Physics</b> – graphs of functions  <b>Mathematics</b> – evolution; animals  <b>General Science</b> – Darwins theory  <b>Skills</b> – argument; debating a point pros &amp; cons</p>	<p><b>Revision</b> - the future of IT</p>	<p><i>further speaking development skills, including sequencing, expressing reasons &amp; giving options for Parts 2 &amp; 3 of IELTS</i></p>



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Weekly Syllabus

	<b>Science</b> (10 lessons)	<b>Computing and Information Technology</b> (10 lessons)	<b>Academic Skills &amp; IELTS Preparation</b> <i>Typical 12 week programme</i> (10 lessons)
Week 25 (First week of Third Term)	<i>general introduction</i> <b>Chemistry</b> – allotropy <b>Physics</b> – electric currents & combining resistors <b>Mathematics</b> – massive numbers <b>General Science</b> - weather	<b>Networks</b> – WANs/LANs & wireless networks; <i>language focus</i> <b>HTML</b> – introduction & formatting	<i>reading strategies for IELTS</i> <i>comparing &amp; contrasting language, cohesive devices</i> <i>logical &amp; grammatical links</i>
Week 26	<b>Chemistry</b> – industrial chemistry <b>Physics</b> – plate tectonics <b>Mathematics</b> – direct & inverse proportion <b>General Science</b> – natural disasters <b>Skills</b> – writing a discursive essay	<b>Networks</b> – signal transmission; OSI model; <i>language focus</i> <b>HTML</b> – lists & tables	<i>listening skills for IELTS multiple choice &amp; note completion</i> <b>IELTS writing:</b> interpreting data in graphs & charts
Week 27	<b>Chemistry</b> – batteries & power sources <b>Physics</b> – electronic control <b>Mathematics</b> – inverse square laws <b>General Science</b> – recycling <b>Skills</b> - critical argument; attacking & defending a position	<b>Networks</b> – TCP/IP, <i>language focus</i> <b>HTML</b> – links and anchors; forms	<i>reading for IELTS matching &amp; sentence completion tasks</i> <i>language for describing places</i> <i>further note completion skills</i>
Week 28	<b>Chemistry</b> – electricity & electrolysis <b>Physics</b> – light <b>Mathematics</b> – geometry: angles & regular figures <b>General Science</b> – time travel & parallel universes <b>Skills</b> – reading & comprehension	<b>Networks</b> – ISPs; browsers; <i>language focus</i> <b>HTML</b> – CSS; XHTML & validation	<i>interpreting &amp; comparing data</i> <i>reading skills – skimming &amp; scanning techniques</i> <i>writing skills including presenting solutions to problems</i>



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### Weekly Syllabus

	<b>Science</b> <i>(10 lessons)</i>	<b>Computing and Information Technology</b> <i>(10 lessons)</i>	<b>Academic Skills &amp; IELTS Preparation</b> <i>Typical 12 week programme (10 lessons)</i>
Week 29	<b>Chemistry</b> – quantitative electrolysis & the uses of electrolysis <b>Physics</b> – lenses & the eye <b>Mathematics</b> – three dimensional figures <b>General Science</b> – perspective & optical illusion <b>Skills</b> - debating a topic	<b>Networks</b> – URLs; streaming; language focus <b>HTML</b> - JavaScript	<i>IELTS listening skills for labeling a diagram, table completion &amp; short answers</i>
Week 30	<b>Chemistry</b> – catalysts & their uses <b>Physics</b> – colour spectrum & colour blindness <b>Mathematics</b> – circles <b>General Science</b> – Murphy’s law <b>Skills</b> – analysing charts	<b>Networks</b> – search engines; email protocols; language focus <b>HTML</b> – JavaScript	<i>speaking for IELTS Part 3 – general discussion IELTS reading skills for multiple choice &amp; summary completion</i>
Week 31	<b>Chemistry</b> – free radicals; the ozone layer; UV radiation <b>Physics</b> – pressure <b>Mathematics</b> – analysing graphs over time <b>General Science</b> – medical technology <b>Skills</b> - comparing & contrasting	<b>Networks</b> – website evaluations; language focus <b>Java</b> – introduction; performing operations	<i>analysing IELTS writing questions writing skills for structuring an argument, providing evidence &amp; supporting points in an argument-led essay</i>
Week 32	<i>revision &amp; progress test</i>	<b>Networks</b> – XML; language focus <b>Java</b> – making statements; directing values	<i>IELTS listening practice for note completion speaking for IELTS Part 2 &amp; 3: long turn &amp; discussion</i>



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## BBSI University Foundation Courses in Science, Technology, Computers & IT



### Weekly Syllabus

	<b>Science</b> <i>(10 lessons)</i>	<b>Computing and Information Technology</b> <i>(10 lessons)</i>	<b>Academic Skills &amp; IELTS Preparation</b> <i>Typical 12 week programme</i> <i>(10 lessons)</i>
Week 33	<p><i><b>Chemistry</b> – products from oil, hydrocarbons &amp; polymers</i></p> <p><i><b>Physics</b> – resonance</i></p> <p><i><b>Mathematics</b> – arcs, circles &amp; pi</i></p> <p><i><b>General Science</b> – internet project</i></p> <p><i><b>Skills</b> – analysing data</i></p>	<p><i><b>Networks</b> – data security I; language focus</i></p> <p><i><b>Java</b> – manipulating data; creating classes</i></p>	<p><i>IELTS reading skills: differentiating false &amp; not given answers</i></p> <p><i>sentence completion &amp; matching tasks reading practice</i></p>
Week 34	<p><i><b>Chemistry</b> – tests for ions &amp; gases</i></p> <p><i><b>Physics</b> – moments &amp; equilibrium</i></p> <p><i><b>Mathematics</b> – Pythagoras &amp; other theorems</i></p> <p><i><b>General Science</b> – types of memory</i></p> <p><i><b>Skills</b> – describing graphs</i></p>	<p><i><b>Networks</b> – data security II; language focus</i></p> <p><i><b>Java</b> – importing functions; building interfaces</i></p>	<p><i>writing skills: practice in interpreting data, expressing disagreement &amp; discussing implications</i></p>
Week 35	<p><i><b>Chemistry</b> – a history</i></p> <p><i><b>Physics</b> – gravity</i></p> <p><i><b>Mathematics</b> – trigonometry</i></p> <p><i><b>General Science</b> – ships &amp; submarines</i></p> <p><i><b>Skills</b> – problem solving</i></p>	<p><i><b>Networks</b> – data security III; language focus</i></p> <p><i><b>Java</b> – recognizing events</i></p>	<p><i>further writing skills development, including describing a process, introductory sentences &amp; marking stages</i></p>
Week 36	<p><i><b>Chemistry</b> – solutions &amp; suspensions</i></p> <p><i><b>Physics</b> – gravity (continued)</i></p> <p><i><b>Mathematics</b> – trigonometry</i></p> <p><i><b>General Science</b> – principles of flight</i></p> <p><i><b>Skills</b> – assimilating &amp; summarizing information</i></p>	<p><i>Revision</i></p>	<p><i>further speaking development skills, including sequencing, expressing reasons &amp; giving options for Parts 2 &amp; 3 of IELTS</i></p>



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