Diploma in Information Technology in Software Development
The Independent Institute of Education (The IIE)

If you’re a creative thinker and enjoy problem solving, then this cutting-edge Diploma is for you and will place you on the fast track to the mind-blowing world of Information Technology. Modules which include programming, web development, systems analysis and database design will ensure that you are equipped with versatile skills and knowledge to take your steps into an environment of application and software development, thereby creating a wealth of opportunities for yourself. The IIE Diploma in Information Technology in Software Development provides a combination of fundamental business-related skills and IT programming-specific competencies, equipping the learner with the baseline knowledge to function effectively in the IT programming environment.

What is this Diploma’s accreditation status?

The IIE Diploma in Information Technology in Software Development is accredited by the Council on Higher Education (CHE) and is registered by the South African Qualifications Authority (SAQA) on the National Qualifications Framework (NQF) as a 368-credit qualification on level 6 (SAQA ID: 74651).
Who is this Diploma aimed at?

Individuals who are suited to the software development industry should fit the following profile in terms of personality traits, interests and abilities: interested in computer programming and development of solutions, have a strength in problem-solving, be a clear and logical thinker, have a technical and mathematical inclination, an ability to concentrate, be methodical and persistent, and an ability to put information into a logical sequence. If you have these analytical skills then this qualification will speak to you. This IIE Diploma provides a combination of sound academic knowledge and practical skills required to be able to enter the dynamic world of software development. The qualification offers the student a comprehensive understanding of systems and programming focusing on extensive application of skills and knowledge in computerised and programming environments. Ingenuity and creativity are particularly important as well as the ability to work with abstract concepts and technical analysis.

What entry requirements will I need to study this Diploma?

<table>
<thead>
<tr>
<th>Minimum Admission Requirements</th>
<th>English</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>NSC: Diploma with</td>
<td>30%</td>
<td></td>
</tr>
<tr>
<td>NC(V): Diploma pass with</td>
<td>40%</td>
<td></td>
</tr>
<tr>
<td>SC: Endorsement -none with</td>
<td>33.3%</td>
<td></td>
</tr>
<tr>
<td>SC(a): Diploma pass</td>
<td>A minimum of 30% in LOLT in NSC/ SC(a) OR with a min. of 33.3% in SC</td>
<td></td>
</tr>
<tr>
<td>International</td>
<td>A SAQA Evaluation Certificate with NSC L4 equivalence with 30% or equivalent in English.</td>
<td></td>
</tr>
<tr>
<td>Alternatively, a Higher Certificate (or equivalent) or Advanced Certificate in a cognate field may satisfy the minimum admission requirements to diploma studies.</td>
<td>If discipline not cognate at least 20% of credits must be academic literacy or numeracy related</td>
<td></td>
</tr>
</tbody>
</table>

Senate Discretionary Admissions

<table>
<thead>
<tr>
<th>Mature Age Exemption</th>
<th>Candidates must have attempted the Senior Certificate or equivalent, attained the age of 23 before or during the first year of registration with three years’ work experience and proven ability relating to the proposed programme as well as adequate communication skills; OR Candidates must have attained the age of 45 before or during the first year of registration.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recognition of Prior Learning (RPL)</td>
<td>Candidates must demonstrate suitability for admission in terms of Senate’s resolution 6.6 of 20 October 2005 which allows for Senate’s discretionary conditional admission (if applicable).</td>
</tr>
<tr>
<td>USAf approved cognate foundation programme</td>
<td>Candidates who have completed an USAf approved cognate foundation programme from a registered and accredited provider may be admitted.</td>
</tr>
<tr>
<td>Transfer students</td>
<td>Candidates who have successfully completed at least 120 credits on the first year of a cognate 3-year diploma may be admitted. However, if a student completed less than 120</td>
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What is The Teaching and Learning Strategy of The IIE’s Varsity College, and how will it help prepare me for the 21st century working world?

At The IIE’s Varsity College we are proud of and passionate about our shift away from the ‘traditional lecturing’ methodology to our blended-learning strategy – the VCBlend.

This blended-learning strategy extends learning beyond the confines of the classroom and creates opportunities for our students to work collaboratively, with peers and their educators, to construct their understanding of concepts. Student engagement is supported by the use of a learning management system (LMS) and the online learning materials that have been developed to underpin our teaching strategy.

Due to the VCBlend approach, you will be expected to spend time conducting your own research, study for assessments and work on assignments. To gain the most from the blended learning experience, VC’s Wireless classrooms and campuses, students are required to BYOT (Bring Your Own Technology) such as mobile devices, netbooks, laptops or tablets, etc. so as to develop the necessary academic and digital literacies over the three years of this diploma.

This student-focused approach compels our students to be accountable for their learning while developing the critical skills they will need to thrive in the rapidly changing 21st century work environment.

As such, academic life for our students is dynamic, challenging and relevant.

How is this Diploma structured at The IIE’s Varsity College?

The IIE Diploma in Information Technology in Software Development is a three-year diploma. The academic year runs from February to November. The modules are delivered on a full-time basis with lectures and tutorials being scheduled during the day from Monday to Friday.

Please note that in line with academic practice, The IIE’s curriculum is reviewed annually thus changes may occur in module structure and sequence in order to ensure that the qualification remains relevant. The exit level outcomes of the programme do not change. Registered students receive an updated programme curriculum on an annual basis.
What will I study in this Diploma?

CURRICULUM – FOR STUDENTS STARTING IN 2020

Year 1

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>Credit Value</th>
<th>NQF Level</th>
<th>2nd Semester</th>
<th>Credit Value</th>
<th>NQF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Analytical Techniques (ANTE110)</td>
<td>10</td>
<td>5</td>
<td>Business Information Systems (BUIS6112)</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>Business Communication (BUCO6020)</td>
<td>10</td>
<td>5</td>
<td>Business Practice Entrepreneurship (BUPEf111)</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Introduction to Personal Computing (INPC110)</td>
<td>5</td>
<td>5</td>
<td>Digital Citizenship (DIGC5110)</td>
<td>8</td>
<td>5</td>
</tr>
<tr>
<td>Introduction to Scholarship A (ITSF5111)</td>
<td>8</td>
<td>5</td>
<td>End User Computing B (ENUC5020)</td>
<td>12</td>
<td>5</td>
</tr>
<tr>
<td>Programming 1A (PROF5111)</td>
<td>20</td>
<td>5</td>
<td>Programming 1B (PROF6112)</td>
<td>15</td>
<td>6</td>
</tr>
<tr>
<td>Programming Logic and Design (Introduction) (PRLD5111)</td>
<td>10</td>
<td>5</td>
<td>Programming Logic and Design (Intermediate) (PRLD5112)</td>
<td>10</td>
<td>5</td>
</tr>
</tbody>
</table>

For 2020, the following co-requisites will apply:
PROG5111 is a co-requisite for PROG6112
PRLD5111 is a co-requisite for PROG6112
PRLD5111 is a co-requisite for PRLD5112

Year 2

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>Credit Value</th>
<th>NQF Level</th>
<th>2nd Semester</th>
<th>Credit Value</th>
<th>NQF Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Database (Introduction) (DATA6211)</td>
<td>15</td>
<td>6</td>
<td>Database (Intermediate) (DATA6212)</td>
<td>12</td>
<td>6</td>
</tr>
<tr>
<td>IT Project Management (IPMA6212)</td>
<td>15</td>
<td>6</td>
<td>Human Computer Interaction (HCIN6212)</td>
<td>17</td>
<td>6</td>
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<tr>
<td>Programming 2A (PROG6211)</td>
<td>20</td>
<td>6</td>
<td>Programming 2B (PROG6212)</td>
<td>15</td>
<td>6</td>
</tr>
<tr>
<td>System Analysis and Design (SAND6211)</td>
<td>16</td>
<td>6</td>
<td>Work Integrated Learning 2 (XISD5219)</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
<td>Web Development (Introduction) (WEDE5010)</td>
<td>10</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For 2020, the following co-requisites apply:
PROG6112 is a co-requisite for PROG6211
PRLD5111 is a co-requisite for PROG6211
DATA6211 is a co-requisite for DATA6212
PRLD5112 is a co-requisite for PROG6212
PROG6211 is a co-requisite for PROG6212
IPMA6212 is a co-requisite for XISD5219
Year 3

<table>
<thead>
<tr>
<th>1st Semester</th>
<th>Credit Value</th>
<th>NQF Level</th>
<th>2nd Semester</th>
<th>Credit Value</th>
<th>NQF level</th>
</tr>
</thead>
<tbody>
<tr>
<td>Advanced Databases (ADDB7311)</td>
<td>15</td>
<td>7</td>
<td>Applied Programming (APPR6312)</td>
<td>15</td>
<td>6</td>
</tr>
<tr>
<td>Information Security (ISEC6311)</td>
<td>10</td>
<td>6</td>
<td>Open Source Coding (Intermediate) (OPSC7312)</td>
<td>15</td>
<td>7</td>
</tr>
<tr>
<td>Open Source Coding (Introduction) (OPSC7311)</td>
<td>15</td>
<td>7</td>
<td>Software Quality and Testing (SQAT6312)</td>
<td>14</td>
<td>6</td>
</tr>
<tr>
<td>Web Development (Intermediate) (WEDE6011)</td>
<td>10</td>
<td>6</td>
<td>Work Integrated Learning 3 (XISD6319)</td>
<td>20</td>
<td>6</td>
</tr>
</tbody>
</table>

For 2020, the following co-requisites apply:
DATA6212 is a co-requisite for ADDB7311
WEDE5010 is a co-requisite for WEDE6011
WEDE6011 is a co-requisite for APPR6312
PROG6212 is a co-requisite for APPR6312
OPSC7311 is a co-requisite for OPSC7312
IPMA6212 is a co-requisite for XISD6319
PROG6212 is a co-requisite for XISD6319
DATA6212 is a co-requisite for XISD6319
XISD6219 is a co-requisite for XISD6319

INPCf110 Competency Test

At The IIE’s Varsity College, we recognise that some students have developed the core skills to succeed in basic computer skills, either through schooling activities, or personal experience. The module Introduction to Personal Computing (INPCf110) is a 5-credit module and is offered across many of The IIE’s academic programmes. We provide students with an opportunity to write a competency test for the Introduction to Personal Computing (INPCf110) module for 2020 which, if passed, will exempt the student from having to attend class and the mark obtained in the competency assessment will become the student’s mark for the module.

The competency test will take place prior to the commencement of the module. Students must register for the module in order to access the competency assessment. The test is completed online and will take place in a computer lab on campus. The assessment covers basic Microsoft Windows 10 functionality and Microsoft Office 2016 applications (Word, Excel, PowerPoint and Outlook).

Your results will be available immediately. If you do not pass the competency test you will be required to attend class and complete the module.
What about timetables?

Our full-time programmes are aimed at students wishing to dedicate themselves to full-time face-to-face studies for the duration of their qualification. This means that students are expected to be available throughout the day for class in the academic year depending on how the timetable is structured. Students may also be required to write assessments or submit coursework or assignments outside of normal class-time.

Students must understand that timetables remain subject to change throughout the year. Unfortunately, we cannot guarantee that timetable structures will remain the same during each year of your studies with us. In addition, where students are repeating modules, these modules may be offered in the evenings or on weekends. Students are required to attend classes in order to remain up to date with the academic programme. Students who would like to pursue part-time employment opportunities outside of the academic programme must prioritise their studies and avoid committing to work schedules until after they have received their timetables and academic calendar from the institution.

Work Integrated Learning (WIL) 2

You will be provided with an opportunity to demonstrate your understanding in a work related simulated environment. This Work Integrated Learning component aims to increase your knowledge and develop your skills using the action and reflection processes of work integrated learning. You will be required to complete a simulation-based project based on concepts learned in core subjects. Students will be expected to present the planning, the analysis, the design and the implementation of the project. The project will include the consideration of a client’s needs and their goals and objectives. You will be compelled to adopt analytical and creative thinking and logical problem-solving skills. The culmination of the project requires you to submit a portfolio of evidence. You must complete the Work Integrated Learning component to achieve the graduate requirements of this programme.

Work Integrated Learning (WIL) 3

You will be provided with an opportunity to demonstrate your understanding of software development in a real-life work environment. You will be required to complete project management processes and procedures and to offer your software development services to a Non-Profit organisation, non-governmental organisation, small entrepreneurial venture or source your own project. You will be expected to present the planning, the analysis, the design and the implementation of the project. The project will include the consideration of your client’s needs and their goals and objectives. You will need to adopt analytical and creative thinking and logical problem-solving skills. On conclusion of the project you will are required to submit a portfolio of evidence. You must complete the Work Integrated Learning component to achieve the graduate requirements of this programme.

What must I pass in order to graduate with this Diploma?

To be awarded this qualification, you must have achieved a minimum final year mark of fifty percent (50%) for each module of the programme; and have met all the Work Integrated Learning requirements, where applicable.

How long do I have to complete this qualification?

Students have a maximum of 6 years to complete this qualification.
With what qualification will I graduate?

You will graduate with The IIE Diploma in Information Technology in Software Development.

Career opportunities: what careers areas can I pursue after I have completed this Diploma?

- Software Developer
- Mobile App Developer
- Computer System Analyst
- Mobile application developer
- Database Information System Support
- Database Administrator
- Web Developer
- Project Manager

Websites for you to visit:
www.softwareengineer.org.za
www.comptia.co.za
http://www.itweb.co.za/
www.itbusinessedge.com

Call your nearest IIE’s Varsity College campus to discuss your career options with one of our Student Advisors.

DISD 2020 V1 20 May 2019

Disclaimer: Please note that this fact sheet is accurate at the time of publication. The Independent Institute of Education (The IIE) reserves the right to alter any of the content prior to commencement of registration due to changes in regulation, policy, market requirements or any other valid reason.

British Accreditation Council

The IIE is not only accredited in South Africa but its dedication to providing quality education also led to it being accredited by the British Accreditation Council (BAC) in 2014. The British Accreditation Council is an independent authority in the United Kingdom that accredits private providers globally, including Greece, Switzerland, Singapore, India, Mauritius and the United Arab Emirates. In 2017 The IIE had its accreditation status confirmed by the BAC as an Independent Higher Education Institution confirming our confidence in the international comparability of our standards.

“South African students need to know, when they select a private higher education institution, that the standards offered are equivalent to those of a public University. Our students get this
from our extensive local accreditation and registration. The students also benefit from knowing that we meet international standards too. The IIE is accredited as an Independent Higher Education Institution by the British Accreditation Council. Locally and internationally we have demonstrated the quality of what we offer,” said Dr Coughlan, Director, The Independent Institute of Education.

The IIE’s Varsity College students can be confident that their IIE learning experience meets international best practice standards.