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| **COURSE NAME CODE**  **VALUE** | Information Technology (T/A/V)  1201/1203  1.0 | **SEMESTER UNIT NAME** | IT Major Project | |
| **SEMESTER UNIT CODE** | 12067 | 12113 |
| **ASSESSMENT FOR** | Tick the appropriate box(s)  T ⌧ A ⌧ V ⌧  H 🞎 M 🞎 | **ASSESSMENT ITEM TYPE** | Theoretical & Practical – Practical Task and Documentation | |
| **YEAR & SEMESTER** | 2014, Semester 2 | **WEIGHTING** | **1.0**: 30% | |
| **MARKED OUT OF** | 100 | **DURATION** | 4 Weeks | |
| **DATE DUE** | 23:59, Friday, 28th August, 2015 (Week 6) | **UNIT GOALS** | As per unit outline | |
| **WORD LIMIT** | Per section | **TEACHER** | Bruce Fuda, Edwin Griffin, Julia Tang | |
| **ASSESSMENT CONDITIONS** | In class and in own time | **COMPETENCIES**  **ADDRESSED** | N/A | |
| **BSSS Policy** | Information about all BSSS policies such as moderation procedures, calculation of unit scores and course scores, attendance requirements, penalties for late or non-submission of work or for plagiarism, and procedures for appealing against a grade or score may be found in *BSSS Policy and Procedures Manual,* on [**www.bsss.act.edu.au/publications/brochures**](http://www.bsss.act.edu.au/publications/brochures)or GNGC Academic Policy Handbook or GNGC cLc. | | | |

Declaration of Original Work

To be used for both hard copy and electronic submissions

The purpose of this declaration is to remind you that all work you submit must be your own work and must not be plagiarised from other sources.

* This declaration must be completed and submitted with the assessment item.
* Sign only if you understand what you have read. Ask a teacher, parent or carer/guardian if you need help to understand what this statement means. Refer to BSSS publication: *What’s plagiarism? How you can avoid it*

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| Student name: |  | | Student ID: |  |
| I understand the policies on plagiarism of both the school and the Board of Senior Secondary Studies. I certify that:   1. the work that I have submitted is my own work and has not been submitted for assessment before; 2. I have kept a copy of this assignment and all relevant notes and reference material that I used in the production of the assignment; 3. I have given references for all sources of information that are not my own, including the words, ideas and images of others. | | | | |
| **Student signature**  **(for hard copy submissions):** | |  | | |
| **Student name**  **(for electronic submissions):** | |  | | |
| **Date submitted:** | |  | | |

(This information will be managed in accordance with the provisions of the Privacy Act and the Freedom of Information Act).

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**Receipt of Assignment** [Student to complete all details except Teacher’s Signature, Date Received and Time Received, then remove and keep as proof of submission after teacher has signed]

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| Student name: |  | Student ID: |  |
| Course: |  | Unit: |  |
| Assignment name: |  | | |
| Received by (Teacher name): |  | Teacher signature: |  |
| Date received: |  | Time received: |  |

**IT Major Project**

**2014S2 Assignment – Prototype / Test Suite**

Due: 23:59 Friday 28th August 2015

Teachers: Bruce Fuda, Edwin Griffin, Julia Tang

ASSESSMENT CRITERIA

Your work will be graded based on the degree to which you demonstrate:

* Knowledge, understanding, application, analysis and evaluation
* Planning, designing, creating and implementing
* Communication and interpersonal skills
* Flexible, adaptive and creative thinking

You must attempt all parts of the assignment before the due date.

For further details of your expectations for this assignment, refer to the assessment rubrics provided at the end of this document as set out in the *BSSS Information Technology Course Document*. The breakdown of marks for each part is shown.

ASSIGNMENT Components

**Minimum Viable Product:**

In order to demonstrate your progress towards the completion of your project, you must submit a functional prototype.

This prototype shall be your minimum viable product, and be capable of demonstrating the core features of your project.

**Project Update:**

In addition to the prototype, you must also deliver a document that provides an update on the progress of your project.

This document must discuss:

* The original planned feature list from your proposal
* A revised feature list for your completed project
* A list of features demonstrated by your MVP
* Justification for any features not included in your MVP
* Justification for any features added/removed since your proposal

SUBMISSION AND DEADLINE

Your assignment is due no later than 23:59, Friday, August 28th 2015. All students must **submit the assignment through Schoology by midnight on the due date**, with a signed copy of the Declaration of Individual Work form provided to the teacher within 24 hours of completion. If your assignment is not complete, or you are absent without a doctor certificate, a late penalty will apply unless an extension has previously been granted. The penalty for late submission is 5% (of possible marks) per day, including weekends and public holidays. If an item is more than 7 days late it receives a notional zero.

**Marking Criteria:**

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| **Criterion** | **A Standard** | **B Standard** | **C Standard** | **D Standard** | **E Standard** |
| *Knowledge, Understanding, Application, Analysis and Evaluation* | **35 - 30 Marks** | **29 – 24 Marks** | **23 – 19 Marks** | **18 - 15 Marks** | **14 - 0 Marks** |
| MVP demonstrates extensive understanding and implementation of related technologies. | MVP demonstrates comprehensive understanding and implementation of related technologies. | MVP demonstrates understanding and implementation of related technologies. | MVP demonstrates some understanding and implementation of related technologies. | MVP demonstrates limited understanding and implementation of related technologies. |
| *Planning, Designing, Creating and Implementing* | **35 - 30 Marks** | **29 – 24 Marks** | **23 – 19 Marks** | **18 - 15 Marks** | **14 - 0 Marks** |
| MVP implements all originally planned features, or appropriate and logical justification provided for any deviation.  All required components submitted. | MVP implements most originally planned features, or appropriate justification provided for any deviation.  All required components submitted. | MVP implements some originally planned features, or logical justification provided for any deviation.  Most required components submitted. | MVP implements few originally planned features, or some justification provided for any deviation.  Some required components submitted. | MVP implements few originally planned features, with no justification provided for any deviation.  Few required components submitted. |
| *Communication and Interpersonal Skills* | **20 - 17 Marks** | **16 - 14 Marks** | **13 - 11 Marks** | **10 - 9 Marks** | **8 - 0 Marks** |
| Code comments provided and appropriate. Variable names appropriate and logical.  Documentation contains no typographical/ grammatical mistakes. | Code comments provided and appropriate. Variable names and logical.  Documentation contains few typographical/ grammatical mistakes. | Code comments provided and variable names and logical.  Documentation contains some typographical/ grammatical mistakes. | Code comments provided, but inappropriate Variable names inappropriate  Documentation contains many typographical/ grammatical mistakes. | Code comments not provided and variable names inappropriate  Documentation contains many typographical/ grammatical mistakes. |
| *Flexible, Adaptive and Creative Thinking* | **10 - 9 Marks** | **8 - 7 Marks** | **7 - 5 Marks** | **5 - 4 Marks** | **3 - 0 Marks** |
| Innovative and/or effective solution provided to identified problem. | Effective solution provided to identified problem. | Acceptable solution provided to identified problem. | Inefficient solution provided to identified problem. | Solution provided gives inconsistent or incorrect response. |

**/100**

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| **Unit Grade Descriptors for T course** | | | | | |
|  | *A student who achieves an* ***A*** *grade typically* | *A student who achieves a* ***B*** *grade typically* | *A student who achieves a* ***C*** *grade typically* | *A student who achieves a* ***D*** *grade typically* | *A student who achieves an* ***E*** *grade typically* |
| **Knowledge, understanding, application, analysis & evaluation** | * evaluates and analyses complex problems with insight and devises innovative solutions | * analyses and explains complex problems with insight and devises creative and effective solutions | * explains and describes problems and devises effective solutions | * identifies and describes problems and devises solutions to problems inconsistently | * identifies problems and presents minimal understanding on developing a solution to a problem |
| * synthesises knowledge of the composition of a system/ application displaying a sophisticated understanding of the interconnected nature of its components | * demonstrates knowledge of the composition of a system or application in a comprehensive and clear manner | * demonstrates knowledge of a system or application in a satisfactory manner | * demonstrates basic knowledge of the composition of a system or application | * demonstrates minimal knowledge of the composition or application |
| **Planning, designing, creating & implementing** | * creates sophisticated and proficient solutions using highly effective problem solving methodology, design techniques, tools, skills and processes | * creates proficient solutions using effective problem solving methodology, design techniques, tools, skills and processes | * creates effective solutions using adequate problem solving methodology, design techniques, tools, skills and processes | * creates basic solutions to problems, inconsistency uses methodology, techniques, tools, skills and processes | * demonstrates minimal application of methodology, techniques, tools, skills and processes to develop solutions to problems |
| * demonstrates refined skills in planning, time management and designing, satisfying all requirements to a very high level | * demonstrates competent skills in planning, time management and designing, satisfying all requirements to a high level | * demonstrates satisfactory skills in planning, time management and designing, satisfying many requirements to a satisfactory level | * demonstrates basic skills in planning, time management and designing, satisfying few requirements | * demonstrates minimal skills in planning, time management and designing, satisfying few requirements |
| **Communication, interpersonal skills** | * presents highly complex concepts accurately and coherently using a wide range of written and non-written formats | * presents complex concepts accurately and coherently using a range of written and non-written formats | * presents concepts with some accuracy and coherence using written and non-written formats | * presents basic concepts with some accuracy using written and non-written formats | * presents concepts using a limited range of written and non-written formats |
| * communicates with a strong sense of purpose and audience | * communicates proficiently with a sense of purpose and audience | * communicates satisfactorily with a sense of purpose and audience | * communicates with some sense of purpose and audience | * demonstrates basic level of communication with limited sense of purpose or audience |
| * demonstrates through awareness of ethical use of information using accepted referencing and uses appropriate terminology accurately and with confidence | * demonstrates a broad awareness of ethical use of information using accepted referencing and uses terminology accurately | * demonstrates general awareness of ethical use of information mostly using accepted referencing and accurate terminology | * demonstrates some awareness of ethical use of information and referencing and some accurate use of terminology | * demonstrates little or no awareness of ethical use of information, referencing or accurate use of terminology |
| * demonstrates highly effective interpersonal skills working productively in both team and group situations with a thorough understanding of individual responsibilities and the rights of others | * demonstrates mostly effective interpersonal skills working in team and group situations with a proficient understanding of individual responsibilities and the rights of others | * demonstrates some effective interpersonal skills working in team and group situations with an understanding of individual responsibilities and the rights of others | * demonstrates basic interpersonal skills working in team and group situations with some understanding of individual responsibilities and the rights of others | * demonstrates some basic interpersonal skills working in team and group situations with minimal understanding of individual responsibilities and the rights of others |
| **Flexible, adaptive, critical and creative thinking** | * demonstrates a thorough awareness of the impact of social, ethical, and legal issues | * demonstrates a broad awareness of the impact of social, ethical, and legal issues | * demonstrates a general awareness of the impact of social, ethical, and legal issues | * demonstrates a basic awareness of the impact of social, ethical, and legal issues | * demonstrates little or no awareness of the impact of social, ethical, and legal issues |
| * demonstrates creativity and agility in applying processes and techniques to familiar and unfamiliar scenarios | * demonstrates agility and confidence in applying processes and techniques to familiar and unfamiliar scenarios | * demonstrates appropriate processes and techniques to familiar and unfamiliar scenarios | * demonstrates occasional application of processes and techniques to familiar scenarios | * demonstrates limited application of processes and techniques to familiar scenarios |

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| **Unit Grade Descriptors for A course** | | | | | |
|  | *A student who achieves an* ***A*** *grade typically* | *A student who achieves a* ***B*** *grade typically* | *A student who achieves a* ***C*** *grade typically* | *A student who achieves a* ***D*** *grade typically* | *A student who achieves an* ***E*** *grade typically* |
| **Knowledge, understanding, application, analysis & evaluation** | * analyses, explains and applies knowledge, concepts and skills with accuracy in a wide range of scenarios | * explains and applies knowledge, concepts and skills with accuracy in a range of scenarios | * recalls, describes and applies knowledge, concepts and skills with some accuracy in a range of scenarios | * identifies and applies some knowledge, concepts and skills with occasional accuracy in a narrow range of scenarios | * recalls minimal knowledge, concepts and skills with little accuracy in limited scenarios |
| * demonstrates comprehensive knowledge of systems composition and application | * demonstrates detailed knowledge of systems composition or application | * demonstrates general knowledge of systems composition or application | * demonstrates basic knowledge of systems composition or application | * demonstrates minimal knowledge of systems composition or application |
| **Planning, designing, creating & implementing** | * develops solutions using highly effective problem solving methodology, tools, knowledge, skills and processes to achieve an outcome | * develops solutions using effective problem solving methodology, tools, knowledge, skills and processes to achieve an outcome | * develops solutions using appropriate problem solving methodology, tools, knowledge, skills and processes to achieve an outcome | * develops solutions using occasional problem solving methodology, tools, knowledge, skills and processes to achieve an outcome | * develops solutions using minimal problem solving methodology, tools, knowledge, skills and processes to achieve an outcome |
| * demonstrates refined skills in planning, time management and designing | * demonstrates competent skills in planning, time management and designing | * demonstrates satisfactory skills in planning, time management and designing | * demonstrates basic skills in planning, time management and designing | * demonstrates minimal skills in planning, time management and designing |
| **Communication, Interpersonal skills** | * presents challenging concepts accurately and coherently using a range of written and non-written formats | * mostly presents concepts accurately and coherently using written and non-written formats | * presents concepts with some accuracy using written and non-written formats | * presents basic concepts with some accuracy using written and non-written formats | * presents some basic concepts using a limited range of written and non-written formats |
| * communicates with a strong sense of purpose and audience | * communicates with a sense of purpose and audience | * mostly communicates with a sense of purpose and audience | * demonstrates some communication with a sense of purpose and audience | * demonstrates a basic level of communication with limited sense of purpose or audience |
| * demonstrates an ethical use of information using accepted referencing and uses appropriate terminology accurately and with confidence | * mostly demonstrates an ethical use of information using accepted referencing and uses terminology accurately | * demonstrates some ethical use of information mostly using accepted referencing and accurate terminology | * demonstrates some ethical use of information and referencing and some accurate use of terminology | * demonstrates little or no ethical use of information, referencing or accurate use of terminology |
| * demonstrates highly effective interpersonal skills | * demonstrates mostly effective interpersonal skills | * demonstrates some effective interpersonal skills | * demonstrates basic interpersonal skills | * demonstrates some basic interpersonal skills |
| * works productively in both team and group situations with a thorough understanding of individual responsibilities and the rights of others | * works in team and group situations with a proficient understanding of individual responsibilities and the rights of others | * works in team and group situations with an understanding of individual responsibilities and the rights of others | * works in team and group situations with some understanding of individual responsibilities and the rights of others | * works in team and group situations with minimal understanding of individual responsibilities and the rights of others |
| **Flexible, adaptive, critical and creative thinking** | * demonstrates a broad awareness of the impact of social, ethical, and legal issues | * demonstrates a general awareness of the impact of social, ethical, and legal issues | * demonstrates a basic awareness of the impact of social, ethical, and legal issues | * demonstrates occasional awareness of the impact of social, ethical, and legal issues | * demonstrates little or no awareness of the impact of social, ethical, and legal issues |
| * demonstrates creativity and confidence in applying processes and techniques to familiar and unfamiliar scenarios | * demonstrates appropriate processes and techniques to familiar and unfamiliar scenarios | * demonstrates routine application of processes and techniques to familiar and unfamiliar scenarios | * demonstrates occasional application of processes and techniques to familiar scenarios | * demonstrates limited application of processes and techniques to familiar scenarios |