

ST. MARY'S COLLEGE FORM 3

Information Technology Course Outline 2022-2023

| Term 1 | | |
|----------------------|---|---|
| Proposed Week | Topic | Modules |
| 1 | Introduction to Form 3 Information Technology | Introducing the course, requirements and expectations |
| 2 | | Topic listing, assessment information, necessary software etc. Assignment: Word Processing Flyer |
| 3 | Problem Solving | Problem Solving Process, Top down approach |
| 4 | Algorithms | Intro to algorithms |
| 5 | | IPO Charts |
| 6 | | Representing algorithms-Pseudocode |
| 7 | | Assignment: Word |
| 8 | | Intro to Variables and Data types in C |
| 9 | | Number Based data types |
| 10 | | Test based data types |
| 11 | | Revision |
| 12 | | |

| Term 2 | | |
|----------------------|--------------|---|
| Proposed Week | Topic | Modules |
| 1 | Algorithms | Review of Term 1 |
| 2 | | Decisions -if statements Assignment: Excel |
| 3 | | Decisions -if then else statements |
| 4 | | Intro to looping structures |
| 5 | | While loop |
| 6 | | Do while loop |
| 7 | | For loop |
| 8 | | Flowcharts |
| 9 | | Trace Tables |
| 10 | Revision | |
| 11 | | |
| 12 | | |

| Term 3 | | |
|----------------------|---------------|--|
| Proposed Week | Topic | Modules |
| 1 | C Programming | Review of Term 2 |
| 2 | | Intro to the C language and compiler |
| 3 | | Hello world, simple declarations and I/O |
| 4 | | Decisions (if, if then else) |
| 5 | | While and do while loops |
| 6 | | For loops |
| 7 | | Arrays |
| 8 | | |
| 9 | Revision | Practice Program writing |
| 10 | | |
| 11 | | |
| 12 | | |