# Curriculum Area Plan: Digital Technologies - Years 9 and 10 (Sample Program 1)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Week** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |
| **Year 9** | **Semester 1** | **Role of hardware, software, data and networks – 9.1.1** | **Data compression – 9.1.2** | **Techniques for acquiring data – 9.1.3** | **Analyse and visualise data – 9.1.4** | **Manage and collaborate – 9.1.5** |  | **Decompose problems** **– 9.1.6** | **Design user experience** **– 9.1.7** | **Design algorithms** **– 9.1.8** | **Develop modular programs – 9.1.9** | **Evaluate solutions** **– 9.1.10** |
| Internet of Things | Creating web sites | Spreadsheets | Python programming | Programming evaluation |
| **Semester 2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Year 10** | **Semester 1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Semester 2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Week** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |

\* Based on 3 x 45 minutes teaching time per week

**Topic, level, semester, sequence**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Digital Systems** |  | **Data and Information** |  | **Creating Digital Solutions** |  |

# Curriculum Area Plan: Digital Technologies - Years 9 and 10 (Sample Program 2)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Week** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |
| **Year 9** | **Semester 1** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Semester 2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Year 10** | **Semester 1** | **Role of hardware, software, data and networks – 10.1.1** | **Data compression – 10.1.2** | **Techniques for acquiring data – 10.1.3** | **Analyse and visualise data** **– 10.1.4** | **Manage and collaborate** **– 10.1.5** | **Decompose problems** **– 10.1.6** | **Design user experience** **– 10.1.7** | **Design algorithms** **– 10.1.8** | **Develop modular programs – 10.1.9** | **Evaluate solutions** **– 10.1.10** |
| Networks Task | Image Optimisation | Data and Collaboration Task | Design Task | Programming Task |
| **Semester 2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Week** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |

\* Based on 3 x 45 minutes teaching time per week

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Digital Systems** |  | **Data and Information** |  | **Creating Digital Solutions** |  |

# Curriculum Area Plan: Digital Technologies - Years 9 and 10 (Sample Program 3)

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Week** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |
| **Year 9** | **Semester 1** | **Role of hardware, software, data and networks - 9.1.1** | **Data compression - 9.1.2** | **Techniques for acquiring data - 9.1.3** | **Analyse and visualise data - 9.1.4** |
| Network Theory | Image Editing | Community Project1. Research and data collection
 | Community Project1. Creating posters
 |
| **Semester 2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **Year 10** | **Semester 1** | **Manage and collaborate** **- 10.1.1** | **Decompose problems** **- 10.1.2** | **Design user experience** **- 10.1.3** | **Design algorithms - 10.1.4** | **Develop modular programs - 10.1.5** | **Evaluate solutions - 10.1.6** |
| Programming Project1. Project management
 | Programming Project1. Analysis - Requirements
 | Programming Project1. Design and development
 | Programming Project1. Evaluation
 |
| **Semester 2** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | **Week** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** |

\* Based on 3 x 45 minutes teaching time per week

**Topic, level, semester, sequence**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Key** | **Digital Systems** |  | **Data and Information** |  | **Creating Digital Solutions** |  |  |