**附件一、學校申請表**

**申請學校：花蓮縣吉安國小**

**申請經費總計(107/108/109學年度)：壹拾伍萬元**

**學校聯絡人及電話：陳俊瑜 0987766535/038523984轉113**

**申請內容簡述：**

**(500字內自由發揮A4一張為限、實施內容、辦理方式、經費項目編列※不補助獎金及1萬元以上設備)**

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| **吉安國小107科技領域總體課程**  **實施內容與辦理方式：**  **（一）、修訂學校課程計畫中實施：（107年實施1.2.；108年實施1-4；109年實施1-6）**   * 1. **Scratch 軟體教學(含聲音、影像互動)**   2. **簡易電子元件組合與實驗（LED、各式電阻、電容、各式感測器、開關、馬達、伺服馬達等）**   3. **結合以上利用Scratch控制Ardunio操控硬體（燈、馬達、感測器應用等）**   4. **Scratch軟硬體結合專題(外殼和部分零件結合3D列印和雷切機)**   5. **Micro:bit實作**      + **程式學習結合單機功能探索：輸入與感應、音效、燈光、迴圈、邏輯等。**      + **多個Micro:bit互動探索：透過廣播玩骰子、猜拳、互動遊戲等**   6. **Micro:bit軟硬體結合專題(外殼和部分零件結合3D列印和雷切機)**   **（二）、推廣研習：依（一）實施進度辦理相關推廣、闖關研習。**   * 1. **學校教師研習（4小時）。**   2. **學生創客闖關研習（4小時）。**   **經費項目：**  **107學年度**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **項次** | **品名** | **數量** | **單價** | **小計** | **備註** | | **1** | **耳機麥克風** | **25** | **500** | **12500** |  | | **2** | **USB網路攝影機** | **25** | **700** | **17500** |  | | **3** | **講師費** | **8** | **800** | **6400** |  | | **4** | **助教費** | **8** | **400** | **3200** |  | | **5** | **電子元件實驗組** | **25** | **320** | **8000** |  | | **6** | **雜支** | **1** | **2400** | **2400** |  | | **總計** | | | | **50000** |  |   **108學年度**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **項次** | **品名** | **數量** | **單價** | **小計** | **備註** | | **1** | **Ardunio含感測套件** | **25** | **720** | **18000** |  | | **2** | **Ardunio自走車套件** | **25** | **800** | **20000** |  | | **3** | **講師費** | **8** | **800** | **6400** |  | | **4** | **助教費** | **8** | **400** | **3200** |  | | **5** | **雜支** | **1** | **2400** | **2400** |  | | **總計** | | | | **50000** |  |   **109學年度**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | **項次** | **品名** | **數量** | **單價** | **小計** | **備註** | | **1** | **Micro:bit及電池組** | **25** | **780** | **19500** |  | | **2** | **Micro:bit轉接套件組** | **25** | **750** | **18750** |  | | **3** | **講師費** | **8** | **800** | **6400** |  | | **4** | **助教費** | **8** | **400** | **3200** |  | | **5** | **雜支** | **1** | **2150** | **2150** |  | | **總計** | | | | **50000** |  | |