



## KONGUNADU ARTS AND SCIENCE COLLEGE (Autonomous)

Coimbatore – 29.

### National Innovation and Start-Up Policy- NISP

#### Department of Computer Science

#### Infrastructure Facilities

**Entrepreneurship** develops new **computing** markets, introduces new software and hardware technologies, and creates scope for employment. Therefore, it is demanding to enhance students of **computer** science with **entrepreneurship** skills.

Student from a **computer science discipline** can become an entrepreneur like Software Developer, Web Developer, Desktop Publisher, Mobile Application Developer, Traders or Dealers in Computer peripherals and Service Provider who can help their clients to take up their online activities with powerful electronic tools.

S.No	Career	Available Software Facilities	Purpose
1.	Desktop Publishing	MS Office, MS Publisher, Scribus.	<ul style="list-style-type: none"> <li>Word, Excel and PowerPoint.</li> </ul>
2.	Software Development	<b>Languages:</b> C, C++, Java and Python, .NET Framework, C#.NET.	<ul style="list-style-type: none"> <li>Languages used for Software Development</li> <li>Databases used for System based Application and Web based Application.</li> </ul>
		<b>Databases:</b> MS Access, ORACLE, MySQL, MS SQL, MongoDB, MariaDB, SQLite.	
		<b>Development Tools/IDEs:</b> Visual Studio, Eclipse, Atom, Brackets.	
		<b>Text Editors:</b> Notepad++.	
3.	Web Development	HTML, CSS, JavaScript, Apache, Word press, Joomla, PHP, Python, Perl, Ruby, JSP, ASP.Net Nodejs.	<ul style="list-style-type: none"> <li>HTML, CSS and JavaScript are used for Client-Side Programming.</li> <li>Apache is a Web Server.</li> <li>Word press and Joomla are used for Website development.</li> <li>Node JS, PHP, Python, Perl, Ruby, JSP and ASP.Net are used for Server-Side Programming.</li> </ul>

4.	Mobile Application Development	Java, Kotlin,C++, C#, Python, HTML, CSS, Javascript, Android Development Toolkit.	<ul style="list-style-type: none"> <li>• Java is the official language for Android App Development and consequently, it is the most used language as well. Many of the apps in the Play Store are built with Java and it is also the most supported language by Google.</li> <li>• Kotlin is a cross-platform programming language that may be used as an alternative to Java for Android App Development.</li> <li>• C++ can be used for Android App Development using the Android Native Development Kit(NDK).</li> <li>• C# is quite similar to Java and so it is ideal for Android App Development.</li> <li>• Python can be used for Android App Development</li> <li>• JavaScript is a text-based programming language used both on the client-side and server-side web page development.</li> </ul>
5.	Software testing	IBM Rational Rose, Selenium, Appium, JMeter, JUnit, Robotium, Selendroid.	<ul style="list-style-type: none"> <li>• Selenium: A test automation tool that automates actions in the browser.</li> <li>• Appium: The mobile counterpart to Selenium used for automated testing on both iOS and Android</li> <li>• JMeter: A performance testing tool written in Java</li> <li>• JUnit: A unit testing tool for Java applications</li> <li>• Robotium: Records UI tests for Android</li> <li>• Selendroid: Selenium-based automated testing for Android</li> </ul>
6.	Statistical and Data Analytics	IBM SPSS, Excel, SCILABS, R Tool, WEKA, GNU PSPP.	<ul style="list-style-type: none"> <li>• Statistical tools are used for planning, designing, collecting data, analysing and drawing meaningful interpretation.</li> </ul>

<b>7.</b>	Multimedia Designing and Graphic designing	Gimp, InkScape, Blender.	<ul style="list-style-type: none"> <li>Used for developing multimedia Application is an application which uses a multiple media sources like text, graphics, images, audio, animation and video.</li> </ul>
<b>8.</b>	IOT Developer	Javascript, Python, Node js, Rasberry pi.	<ul style="list-style-type: none"> <li>The Internet of Things (IoT) refers to a network of internet-connected objects that are built to collect and exchange data using embedded sensors.</li> </ul>
<b>9.</b>	Hardware Assembling and Troubleshooting	Assembling and Installations.	<ul style="list-style-type: none"> <li>Hardware assembling and troubleshooting</li> </ul>
<b>10.</b>	Traders and Dealers in Computer Peripherals and Accessories	Knowledge about Hardware And Software.	<ul style="list-style-type: none"> <li>Purchasing Quality products from manufacturers and supplying to the clients.</li> </ul>
<b>11.</b>	Mobile and Web Game Development	C, C++, Javascript, Game Engines like Gdevelop.	<ul style="list-style-type: none"> <li>Used to develop Cross platform Gaming Software.</li> </ul>