



## PROGRAM INFORMATION: MASTER CLASSES

### Years 6, 7 and 8

<b>Program Title</b>	<b>Game Design with Pygame</b>
<b>Time Schedule (AEDT)</b>	<p>Registration commences 10 minutes before the session begins</p> <p><b>WEEKNIGHT PROGRAMS</b></p> <p><b>Registration: 4.20 pm</b> <b>Session: 4.30 pm – 6.00 pm</b></p> <p><b>SATURDAY MORNING PROGRAMS</b></p> <p><b>Registration: 9.20 am</b> <b>Session: 9.30 am – 11.00 am</b></p>
<b>Zoom Meeting Links</b>	Meeting link, meeting I.D and password will be emailed two days before the program.
<b>Zoom Information</b>	Are you new to Zoom? Please use this <a href="#">link</a> for Zoom start-up information.
<b>Online Program Set-up</b>	<p>Please prepare the following:</p> <ul style="list-style-type: none"> <li>✓ Headphones</li> <li>✓ Notepad for writing/taking notes</li> <li>✓ Pens/pencils</li> </ul>
<b>Program Requirements</b>	NONE
<b>Program Outcomes</b>	<p><b>Session 1: Introduction to Pygame</b></p> <p>In this session students get introduced to Pygame, its special functions and go on to draw a variety of shapes on the Pygame screen. We conclude by creating a ball that bounces off the edges of the screen</p> <p><b>Session 2: Paddle Ball Game</b></p> <p>In this session we upgrade the bouncing ball into a game very similar to pong where the player controls a paddle either by a mouse or arrow keys and tries to keep the ball from dropping down. This is a challenge because the game keeps getting harder as the score increases</p> <p><b>Session 3: Agar.io game</b></p> <p>In this session we will get introduced to Object Oriented Programming which is a mode of programming used with most computer games. We will create blob and food objects and have blobs collect food and then try to eat each other with a wonderful catch only bigger blobs can eat smaller blobs but smaller blobs are faster than the bigger blobs .</p> <p><b>Session 4: Mini Space Invaders</b></p> <p>In this session we apply object oriented programming to an all time classic game concept space invaders. We will re-create one level of this game creating a hero, an enemy (which is cloned 20 times) and give the hero the ability to shoot which sets the stage for an epic battle to for our home planet1</p>