

STAGE 2 – PREPARATION



WEEK	SESSION	ROBOTICS	HOME AUTOMATION	CODING	GAME DEV	APP DEV
WEEK 1	SESSION 1	Introduction to Arduino	Introduction to Arduino	Introduction to Computers, Operating System	Introduction to 2D & 3D Gaming	Introduction to App Dev
WEEK 2	SESSION 2	Basic Electronics and Circuits	Basic Electronics & Circuits	About IP, Internet & Browsers	Intro to Game Dev using Block Programming	HTML 5 – I & II, CSS
WEEK 3	SESSION 3	Introduction to Arduino IDE & Interfacing with computer	Introduction to Arduino IDE & Interfacing with computer	Introduction to Front & Back End, HTML & CSS	Characters – Design, Live, Interaction	Pure JS, J Query, D3, Angular JS
WEEK 4	SESSION 4	Introduction to Embedded Learner Board	Introduction to Embedded Learner Board	Introduction to Python / PHP	Introduction to C#	Introduction to RDBMS
WEEK 5	SESSION 5	Introduction to Programming	Introduction to Programming	Introduction to Syntax, Variable, String, Arrays	Number, Strings, Variables	Introduction to DJANGO – I
WEEK 6	SESSION 6	Introduction to Sensors	Introduction to Sensors	Front end, Back End, IDE, Libraries & API	Loops, Functions, Arrays	App Layouts & Design (UI, Buttons)
WEEK 7	SESSION 7	Programming 2 and Serial Monitor & Debugging	Programming 2 and Serial Monitor & Debugging	Introduction to CMS – Drupal, Wordpress, Magento	Player Scripting & Animation	Slide Bar Inputs, Free Draw
WEEK 8	SESSION 8	Embedded Learner Board Activity 1	Embedded Learner Board Activity 1	Introduction to GIT	Programming Hazard's movement & Managing Player Damage	Text to Speech, Audio Playback
WEEK 9	SESSION 9	Embedded Learner Board Activity 2	Embedded Learner Board Activity 2	Introduction to OOP	Adding UI, Main Menu & Lose Screen	Adding UI, Main Menu & Lose Screen
WEEK 10	SESSION 10	Embedded Learner Board Activity 3	Embedded Learner Board Activity 3	Introduction to SAAS, PAAS, LAAS	Adding Sound, Music & Dash Move	Library & Using Phone's Hardware
WEEK 11	SESSION 11	Embedded Learner Board Activity 4	Embedded Learner Board Activity 4	Introduction to SWIFT	How to Publish	Launching on iOS & Android
WEEK 12	SESSION 12	What's Next	What's Next	Evaluation 1	Evaluation 1	Evaluation 1
WEEK 13	SESSION 13	Evaluation 2 (Optional)	Evaluation 2 (Optional)	Evaluation 2 (Optional)