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**CODING AND ROBOTICS**

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| **S/N** | **Class** | **Courses** | **WK 1** | **WK 2** | **WK 3** | **WK 4** | **WK 5** | **WK 6** | **WK 7** | **WK 8** | **WK 9** | **WK 10** | **WK 11** | **WK122** |
| 1 | SS 2 | Kotlin, Flutter, Robotics | Introduction, Objectives,  Importance,  How to learn,  Result | **Robotics** :  Robot , History  **KotLin**: syntax, Output,  Comment,  Variables  **Flutter**: | **Robotics** : Components  **KotLin**:  Data types, operators, string  **Flutter**: | **Robotics** : Locomotion  **KotLin**:  Boolean, if..else, when  **Flutter**: | **Robotics**:  AI  **KotLin**:  While loop,  Break and continue. Arrays  **Flutter**: | **Robotics**: AI Research  **KotLin**:  For loop, ranges, functions  **Flutter**: | **Robotics**: Types  **KotLin**:  OOP,  Class and objects,  Constructors  **Flutter**: | **Robotics**: Sensor Types  **KotLin**:  Class functions,  Inheritance, examples  **Flutter**: | **Robotics**: Hardware Designing  **KotLin**:  Exercise, quiz, compiler  **Flutter**: | Project | Project | Publish |
| 2 | SS 1 | Python | Introduction, Objectives,  Importance,  How to learn,  Result | Syntax, Comment, Variables , Data type, numbers, casting, string, Booleans | Operators, List, Tupples, Dictionary, if..Else | While loop, for loop, functions, lambda, arrays | Class/objects, inheritance, iteration, scope, modules | Date, math, JSON, RegEx, PIP | Try Except, User input, String Formatting, file handling, read files | Write/create files, delete files, numpy tutorials, pandas tutorials, sciPy Tutorials | Django Tutorials, Math PlotLIb Intro,  Math PlotLIb get started, Math PlotLIb pyplot,  Math PlotLIb marker,  Math PlotLIb Lines | Project | Project | Publish |
| 3 | JSS 3 | PHP and SQL | Introduction, Objectives,  Importance,  How to learn,  Result | **PHP**:  Install, Syntax, Comments, Variable, Echo/Print, Data Type, String  **SQL**:  Syntax,  Select, Select Distinct | **PHP**:  Numbers, Maths, Constants, Operators  **SQL**:  Where, And/or/Not | **PHP**:  IF—ELSE--ELSEIF, Switch, Loop, Functions  **SQL**:  Order by, Insert Into | **PHP**:  Arrays, Super Global, RegExp, Form Handling  **SQL**:  Null Values, Update | **PHP**:  Form validation,  Form Required,  Form url/email,  form complete  **SQL**:  Delete, Select Top | **PHP**:  Date and Time, Include, File Handling, File open and read  **SQL**:  Min/Max, Count, Average, Sum | **PHP**:  File create and write, file upload, cookies, sessions  **SQL**:  Like, wild cards | **PHP**:  Filters, Filters Advanced, Callback functions,  Json  **SQL**:  in, Between | Project | Project | Publish |
| 4 | JSS 2 | JavaScript and Bootstrap | Introduction, Objectives,  Importance,  How to learn,  Result | **JavaScript:**  where to, output, statement, syntax, comment,  Variable, let, constants, operators, arithmetic, assignment  **Bootstrap**:  Containers,  Grid basics,  Topography, Colors | **JavaScript:**  Data type, functions, events, String, String Method, String Search  **Bootstrap**:  Tables,  Images | **JavaScript:**  String, Templates, Numbers, Number Methods, Arrays, Array Methods, Array Sort  **Bootstrap**:  Jumbotron,  Alerts | **JavaScript:**  Array Iteration, Array Constant, Dates, Date Formats, Date Get Methods, Date set Methods  **Bootstrap**:  Buttons,  Button Groups | **JavaScript:**  Math, random, Booleans, comparisons, If Else, Switch  **Bootstrap**:  Barges,  Progress Bars | **JavaScript:**  Loop for,  Loop for in,  Loop for of, loop while, break,  Iterables  **Bootstrap**:  Spinners,  Pagination | **JavaScript:**  Sets, Maps, Type of, Type Conversion, Bitwise, RegExp  **Bootstrap**:  List Groups,  Cards | **JavaScript:**  Errors, scope, hoisting, Strict Mode, this keyward, array function  **Bootstrap**:  Drop Downs,  Colapse | Project | Project | Publish |
| 5 | JSS 1 | HTML and CSS | Introduction, Objectives,  Importance,  How to learn,  Result | **HTML**:  Editors , Basic, Elements  **CSS**:  Syntax , Selectors, How To | **HTML**:  Attributes, Headings  **CSS**:  comments, colors | **HTML**:  Paragraph, Styles  **CSS**:  Background, Borders | **HTML**:  Formatting, Quotation  **CSS**:  Margins, Padding | **HTML**:  Comments, Colors  **CSS**:  Height/Width, Box Model | **HTML**:  CSS, Links  **CSS**:  Outline, Text | **HTML**:  Image, Favicon  **CSS**:  Fonts, Icons | **HTML**:  Tables, List  **CSS**:  Links, List | Project | Project | Publish |
| 6 | GD 5 | GUI Design | Introduction, Objectives,  Importance,  How to learn,  Result | Design Tools.  Editors,  Basic Tools,  Position, Size, Rotation, & Corner, Working, with Position, Size, Rotation | Color Styles  Masks  Dark Mode with Color Selection | Gradients  Creating Backgrounds  Blending Models | Alignment, Distribution, & Tidy up Properties Exploring Alignment and Tidy up in Figma | Union and Corner Radius  Shadow and blur effect | Using Images,  Fill, Stroke, & Advanced Stroke Get to know more about the Fill and various Stroke options in Figma  Text properties and style | Google fonts and normal fonts  Accessibility | responsive design  Constraints | Project | Project | Publish |
| 7 | GD 4 | Coding  (Beginner) | Introduction, Objectives,  Importance,  How to learn,  Result | Design Rules, Design | Design | HTML | CSS | JavaScript and Bootstrap | PHP and SQL | Python | Robotics | Project | Project | Publish |
| 8 | GD 3 | Coding  (Preparatory) | Introduction, Objectives,  Importance,  How to learn,  Result | FIGMA | HTML | CSS | JavaScript | Bootstrap | PHP | SQL | PYTHON | Project | Project | Publish |