

# DISCOVER CODE COURSES

| SR NO.                        | CODE COURSE   | MODULE | TOTAL LEARNING HRS | CONTENT DETAIL                                     | CODING PROGRAMS / PLATFORMS     |
|-------------------------------|---|--------|--------------------|--|---------------------------------|
| <b>DISCOVER CODE CAPSULES</b> |   |        |                    |  |                                 |
| 1                             | Discover Code<br>6 to 8 Yrs                         | -      | 15 hrs             | Coding Concepts + 7 Animations                     | Scratch 3.0 Code.Org            |
| 2                             | Discover Code<br>9 to 12 Yrs                        | -      | 15 hrs             | Coding Concepts + 3 Animations, 2 Games, 2 Apps    | Scratch 3.0 Code.Org, App Lab   |
| 3                             | Discover Code<br>13 Yrs +                           | -      | 15 hrs             | Coding Concepts + 3 Animations, 2 Games,<br>2 Apps | Code.Org, App Lab, App Inventor |
| 4                             | Design your App<br>9 yrs +                          | -      | 10 hrs             | 5 Apps   | App Lab                         |
| 5                             | Handcode Your<br>1 <sup>st</sup> Website<br>9 Yrs + | -      | 5 hrs              | 1 Static Website                                   | HTML, CSS                       |
| 6                             | Coding Shotgun<br>6 to 8 Yrs                        | -      | 5 hrs              | 4 Animations                                       | SCARTCH                         |
| 7                             | Blogging<br>9 to 12 Yrs                             | -      | 10 hrs             | 1 Blog design                                      | HTML, CSS                       |

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| <b>I CAN CODE SERIES</b>                |                             |         |                    |   |  |
| 8                                       | CUBS<br>6 - 8 Yrs           | 1       | 15 hrs             | Introduction to Coding + Pre Coding Concepts  | Code.org + Scratch + Tynker + Code Land                      |
|   |                             | 2       | 15 hrs             | Animation Projects using Pre Coding Concepts  |  |
|   |                             | 3       | 32 hrs             | Animation & Game Development Projects using Coding Concepts   |  |
|   |                             | 4       | 32 hrs             | Animation & Game Development Projects using Coding Concepts   |  |
| 9                                       | HOPPERS<br>9 - 12 Yrs       | 1       | 30 hrs             | Animation & App Development using Core Coding Concepts  | Code.org + Scratch + MIT App Inventor + App Lab              |
|   |                             | 2       | 30 hrs             | Animation, Game & App Development using Core Coding Concepts  |  |
|   |                             | 3       | 30 hrs             | Animation, Game & App Development using Core Coding Concepts  |  |
| 10                                      | HAWKS<br>13 Yrs +           | 1       | 30 hrs             | Animation & App Development using Core Coding Concepts  | MIT App Inventor + App Lab + Python + HTML, CSS, Java Script |
|   |                             | 2       | 30 hrs             | Animation, Game & App Development using Core Coding Concepts  |  |
|   |                             | 3       | 30 hrs             | Animation, Game & App Development using Core Coding Concepts  |  |
| <b>MY 1<sup>st</sup> WEBSITE SERIES</b> |                             |         |                    |   |  |
| 11                                      | Web Development<br>10 + Yrs | 1 (Beg) | 20 hrs             | Basic Programming & Web Development using HTML. 2 static websites with different styles.  | HTML   |
|   |                             | 2 (Int) | 20 hrs             | 2 static websites with different styles using HTML, CSS. Creating forms & Embedding video and audio in the website              | HTML, CSS  |
|   |                             | 3 (Adv) | 30 hrs             | Web Development using HTML, CSS & JAVA SCRIPT. Linking one webpage to another. Advanced ways of adding style to his/her website | HTML, CSS, JAVASCRIPT  |

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| <b>MY 1<sup>st</sup> APP WITH PYTHON</b>               |                                 |        |                    |  |                             |
| 12   | Python<br>12+ Yrs               | 1      | 30 hrs             | Console Application - UI + Turtle Application.<br>App Development using Python   | PYTHON                      |
|  |                                 | 2      | 30 hrs             | Graphic User Interface (How your app looks)  |                             |
|  |                                 | 3      | 30 hrs             | GUI Back End + 10 Python Projects  |                             |
|  |                                 | 4      | 30 hrs             | Machine Learning   |                             |
| <b>MY 1<sup>st</sup> PROGRAMMING WITH JAVA, C, C++</b> |                                 |        |                    |  |                             |
| 13   | C, C++<br>12 Yrs +              | 1      | 21 hrs             | Coding Fundamentals using core coding concepts.<br>Advanced Text based coding like functions array and string.<br>Important concepts in data structures like stack queue<br>and binary trees.<br>Practical applications of all concepts on making different apps<br>and games. | C, C++                      |
|  |                                 | 2      | 21 hrs             |  |                             |
|  |                                 | 3      | 40 hrs             |  |                             |
| 14   | Java<br>12 Yrs +                | 1      | 21 hrs             | Coding Fundamentals using core coding concepts.<br>Advanced Text based coding like functions array & string.<br>Important concepts in data structures like stack queue<br>and binary trees.<br>Practical applications of all concepts on making different apps<br>and games.   | Java                        |
|  |                                 | 2      | 21 hrs             |  |                             |
|  |                                 | 3      | 40 hrs             |  |                             |
| 15   | MIT App Inventor<br>9 to 12 Yrs | -      | 40 hrs             | Fundamentals of Coding<br>Design of multiple Apps<br>Understanding of real life Apps   | APP INVENTOR                |
| 16   | Machine Learning<br>12 Yrs +    | -      | 150 hrs            | Data Analysis Concept<br>Concept of machine<br>Learning - Supervised and Non-Supervised Machine<br>Learning Algorithm<br>Concept of Natural language processing (NLP)  | PYTHON                      |