



P.S.R. ENGINEERING COLLEGE, SIVAKASI – 626 140.

(An Autonomous Institution, Affiliated to Anna University, Chennai)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

VALUE ADDED COURSE

VAC17CS01 – SCRATCH, ALICE AND RAPTOR

Course Objectives:

- To understand the uses of scratch, Alice and raptor tools
- To understand coding and drawing procedures
- To learn the more examples and problems
- To develop different projects using these tools and languages

Course Outcomes: The Students will be able to

- Know the basics of how a computer operates
- Understand the data represented in a computer system
- Learn the introduction to programming in Scratch, Alice and Raptor tool
- Understand the features and usages of these tools
- Do more exercises in Raptor, Scratch and Alice

Day 1: *Scratch*

- Introduction to scratch
- Moving blocks
- Creating scripts
- Repeating blocks
- Drawing with a computer
- Coordinates and conditionals
- Broadcast and random numbers

Day 2: *Scratch*

- Tempo
- variables
- hat block
- Scratch tools
- gravity
- mazes
- Building your own blocks
- Final Projects Implementation
- Ideas for new designs

Day 3: *Alice*

- An introduction to programming in Alice
- Simple loops
- Variables, Functions and Parameters
- Conditional Statements and Event Handling

Day 4: *Alice*

- Indefinite Loops
- Practice session
- Project Implementation session

Day 5: *Raptor*

- Introduction to Raptor
- Symbols identification
- Program and Flowchart mapping
- Flowchart creation and Execution
- Exercises and Practices