

SAINTGITS COLLEGE OF APPLIED SCIENCES

**VALUE ADDED COURSES 2017-18** 

## HARDWARE & PC ASSEMBLING AND ANDROID APP DEVELOPMENT USING MIT APP INVENTOR

LEARN , GROW , EXCEL

### **ABOUT THE COURSE**

Hardware & PC Assembling program enables the participants to know more about PC hardware components in detail. It includes identifying, installing and assembling PC System. It also covers on CPU, RAM chips, motherboard architecture, ports, connectors, cables, power supply, CMOS Configurations as well as upgrading and troubleshooting hardware problems. MIT App Inventor is an online platform designed to teach computational thinking concepts through development of mobile applications.

### **OBJECTIVES**

- Identify the names, purpose and characteristics of hardware components
- Identify ports and connectors: Serial, Parallel, USB, Fire wire, IDE, FDC etc and Interface cards.
- Discover basic procedures for adding and removing hardware components
- Develop android app using MIT appinventor

### SAINTGITS

# THE COURSE IS DESIGNED TO EQUIP STUDENTS WITH LATEST TECHNOLOGY TRENDS IN HARDWARE AND MOBILE APPLICATION DEVELOPMENT.

### EXPECTED OUTCOMES

- Students will become able to understand how to assemble desktop PC with its internal components.
- Students will become able to develop mobile applications for android phones.

### DURATION

One Year(Two hours per week)







### **FEATURES**

- We providing Hands-on session for PC assembling
- Helps students in developing android app.



### RELEVANCE

 The course is designed to equip students with latest technology trends in hardware and mobile application development

### **ADVANTAGES**

- It will shape up your life professionally. After completed this course, students developed android app for Department named 'HELPING HAND FOR BCA SCASIANS'
- Help students to gain the required experience and expertise for this specific area. With this experience students handled Hands-on sessions on PC Assembling for high school students through a program 'TECHMERIDIAN'

### CONTENT

- Familiarizing PC hardware Components.
- PC Assembling.
- MIT App Inventor2 for android app.





### SAINTGITS COLLEGE OF APPLIED SCIENCES PATHAMUTTOM, KOTTAYAM

### **SYLLABUS**

SUBJECT:- HARDWARE & PC ASSEMBLING & ANDROID APP DEVELOPMENT USING MIT APP INVENTOR

### MODULE 1:

Familiarizing PC hardware Components. -Motherboard, RAM, RAM Slot, CPU,
 CPU Socket, Expansion Slots, SMPS, Heat Sink, CMOS, CMOS battery, BIOS, I/O
 ports-VGA ports, USB port, Parallel port, Serial Port.

### MODULE 2:

PC Assembling- Assembling various parts of a Personal Computer

### MODULE 3:

 MIT App Inventor2 for android app- Detailed description of MIT App Inventor window -Palette, Viewer, Components and Properties. Different UI Components-Button, Image, CheckBox, DatePicker, Label, ListPicker, ListView, Notifier.



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