

**SAINTGITS COLLEGE OF APPLIED SCIENCES**

VALUE ADDED COURSES 2019-20

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



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Principal  
Saintgits College of Applied Sciences  
Kottukulam Hills, Pattanam,  
Kottayam-686 532, Kerala



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## 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

## 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.

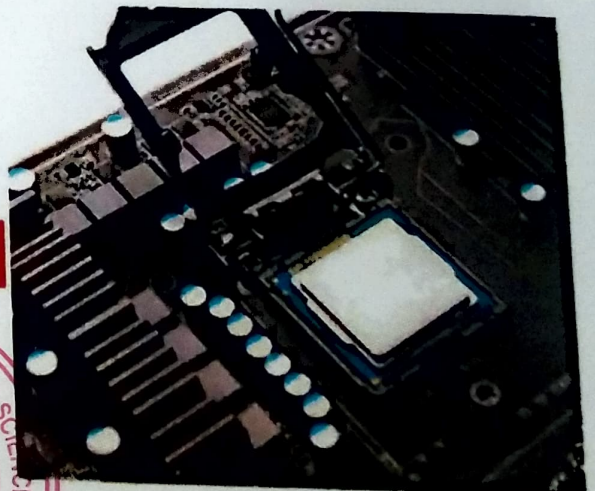
## DURATION

- One Year(Two hours per week)



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



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## FEATURES

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



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## 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.

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# SAINTGITS COLLEGE OF APPLIED SCIENCES

Pathamuttom, Kottayam - 686532  
Phone : 0481 - 2433787  
e-mail : [scas@saintgits.org](mailto:scas@saintgits.org), Web : [www.saintgits.org](http://www.saintgits.org)

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# SAINTGITS COLLEGE OF APPLIED SCIENCES PATHAMUTTOM, KOTTAYAM

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## 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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Kottayam-686 532, Kerala

## STUDENTS ATTENDANCE

| Roll No                         | Name                  | Month |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|-----------------------|-------|---|---|---|---|---|---|---|---|---|---|---|
|                                 |                       | Date  |   |   |   |   |   |   |   |   |   |   |   |
|                                 |                       | 6     | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 |
| 1                               | Abhinand K            | X     | X | X | X | X | X | X | X | X | X | X |   |
| 2                               | Abin Samson           | X     | X | X | X | X | X | X | X | X | X | X |   |
| 3                               | Adithyan Dev          | X     | X | X | X | X | X | X | X | X | X | X |   |
| 4                               | Akila P. Anil         | X     | X | X | X | X | X | X | X | X | X | X |   |
| 5                               | Alan John Joseph      | X     | X | X | X | X | X | X | X | X | X | X |   |
| 6                               | Allen James           | X     | X | X | X | X | X | X | X | X | X | X |   |
| 7                               | Anaal Krishnan        | X     | X | X | X | X | X | X | X | X | X | X |   |
| 8                               | Anantha Lakshmi K.S   | X     | X | X | X | X | X | X | X | X | X | X |   |
| 9                               | Ansaba R.B            | X     | X | X | X | X | X | X | X | X | X | X |   |
| 10                              | Arshaan Kushnankumar  | X     | X | X | X | X | X | X | X | X | X | X |   |
| 11                              | Arijan K.B            | X     | X | X | X | X | X | X | X | X | X | X |   |
| 12                              | Ashwin S. Pillai      | X     | X | X | X | X | X | X | X | X | X | X |   |
| 13                              | Attul Bijal Abraham   | X     | X | X | X | X | X | X | X | X | X | X |   |
| 14                              | Ayanna Cheru X        | X     | X | X | X | X | X | X | X | X | X | X |   |
| 15                              | Devika G              | X     | X | X | X | X | X | X | X | X | X | X |   |
| 16                              | Devika PS             | X     | X | X | X | X | X | X | X | X | X | X |   |
| 17                              | Farzana Fathima Firoz | X     | X | X | X | X | X | X | X | X | X | X |   |
| 18                              | Fathima Rasheed       | X     | X | X | X | X | X | X | X | X | X | X |   |
| 19                              | Gibin Skara philip    | X     | X | X | X | X | X | X | X | X | X | X |   |
| 20                              | Gokul G               | X     | X | X | X | X | X | X | X | X | X | X |   |
| 21                              | Haritha mol K.H       | X     | X | X | X | X | X | X | X | X | X | X |   |
| 22                              | Ibinu Shagib          | X     | X | X | X | X | X | X | X | X | X | X |   |
| 23                              | Jacob Varghese        | X     | X | X | X | X | X | X | X | X | X | X |   |
| 24                              | Jayakrishna S         | X     | X | X | X | X | X | X | X | X | X | X |   |
| 25                              | Jayalakshmi M         | X     | X | X | X | X | X | X | X | X | X | X |   |
| 26                              | Jeggy prasad philip   | X     | X | X | X | X | X | X | X | X | X | X |   |
| 27                              | Jessica James         | X     | X | X | X | X | X | X | X | X | X | X |   |
| 28                              | Jewel George          | X     | X | X | X | X | X | X | X | X | X | X |   |
| 29                              | Jewel Jose            | X     | X | X | X | X | X | X | X | X | X | X |   |
| 30                              | Jewel Siju Thomas     | X     | X | X | X | X | X | X | X | X | X | X |   |
| Name of the Faculty & Signature |                       | X     | X | X | X | X | X | X | X | X | X | X |   |
| 31                              | Silu Elsa Jacob       | X     | X | X | X | X | X | X | X | X | X | X |   |
| 32                              | Sishona Saji          | X     | X | X | X | X | X | X | X | X | X | X |   |
| 33                              | Sithu Varghese Jacob  | X     | X | X | X | X | X | X | X | X | X | X |   |

Signature of the lecturer in charge

*Johny...*

## STUDENTS ATTENDANCE

| Roll No                         | Name                  | Month |   |   |   |   |   |   |   |   |   |   |   |
|---------------------------------|-----------------------|-------|---|---|---|---|---|---|---|---|---|---|---|
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| 1                               | Abhinand K            | X     | X | X | X | X | X | X | X | X | X | X |   |
| 2                               | Abin Samson           | X     | X | X | X | X | X | X | X | X | X | X |   |
| 3                               | Adithyan Dev          | X     | X | X | X | X | X | X | X | X | X | X |   |
| 4                               | Akila P. Anil         | X     | X | X | X | X | X | X | X | X | X | X |   |
| 5                               | Alan John Joseph      | X     | X | X | X | X | X | X | X | X | X | X |   |
| 6                               | Allen James           | X     | X | X | X | X | X | X | X | X | X | X |   |
| 7                               | Anaal Krishnan        | X     | X | X | X | X | X | X | X | X | X | X |   |
| 8                               | Anantha Lakshmi K.S   | X     | X | X | X | X | X | X | X | X | X | X |   |
| 9                               | Ansaba R.B            | X     | X | X | X | X | X | X | X | X | X | X |   |
| 10                              | Arshaan Kushnankumar  | X     | X | X | X | X | X | X | X | X | X | X |   |
| 11                              | Arijan K.B            | X     | X | X | X | X | X | X | X | X | X | X |   |
| 12                              | Ashwin S. Pillai      | X     | X | X | X | X | X | X | X | X | X | X |   |
| 13                              | Attul Bijal Abraham   | X     | X | X | X | X | X | X | X | X | X | X |   |
| 14                              | Ayanna Cheru X        | X     | X | X | X | X | X | X | X | X | X | X |   |
| 15                              | Devika G              | X     | X | X | X | X | X | X | X | X | X | X |   |
| 16                              | Devika PS             | X     | X | X | X | X | X | X | X | X | X | X |   |
| 17                              | Farzana Fathima Firoz | X     | X | X | X | X | X | X | X | X | X | X |   |
| 18                              | Fathima Rasheed       | X     | X | X | X | X | X | X | X | X | X | X |   |
| 19                              | Gibin Skara philip    | X     | X | X | X | X | X | X | X | X | X | X |   |
| 20                              | Gokul G               | X     | X | X | X | X | X | X | X | X | X | X |   |
| 21                              | Haritha mol K.H       | X     | X | X | X | X | X | X | X | X | X | X |   |
| 22                              | Ibinu Shagib          | X     | X | X | X | X | X | X | X | X | X | X |   |
| 23                              | Jacob Varghese        | X     | X | X | X | X | X | X | X | X | X | X |   |
| 24                              | Jayakrishna S         | X     | X | X | X | X | X | X | X | X | X | X |   |
| 25                              | Jayalakshmi M         | X     | X | X | X | X | X | X | X | X | X | X |   |
| 26                              | Jeggy prasad philip   | X     | X | X | X | X | X | X | X | X | X | X |   |
| 27                              | Jessica James         | X     | X | X | X | X | X | X | X | X | X | X |   |
| 28                              | Jewel George          | X     | X | X | X | X | X | X | X | X | X | X |   |
| 29                              | Jewel Jose            | X     | X | X | X | X | X | X | X | X | X | X |   |
| 30                              | Jewel Siju Thomas     | X     | X | X | X | X | X | X | X | X | X | X |   |
| Name of the Faculty & Signature |                       | X     | X | X | X | X | X | X | X | X | X | X |   |
| 31                              | Silu Elsa Jacob       | X     | X | X | X | X | X | X | X | X | X | X |   |
| 32                              | Sishona Saji          | X     | X | X | X | X | X | X | X | X | X | X |   |
| 33                              | Sithu Varghese Jacob  | X     | X | X | X | X | X | X | X | X | X | X |   |

