**INTERNSHIP-2020 DRAFT**

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| **Sl no** | **concepts** | **description** | **hours** |
| Day 1 | introduction | Refreshing concepts - c & java | 1 hour |
| Day 2 | Objects and classes | What is object and classes ,uses in java | 45 min |
| Day 3 | Introduction to python | Python installation, install ide(pycharm,anaconda) | 30 min |
| Day 4 | Python programming | Print,input,data types, Lines and Indentation,python strings and multiline strings | 1 hour 15 min |
| Day 5 | Python programming | Python boolenas and operators | 30 min |
| Day 6 | Python programmings | List tupels dictonaries | 1 hour |
| Day 7 | Python programming | Condition statements looping statements function | 1 hours |
| Day 8 | Simple  project | - | depends |
| Day 9 | python | Array, classes,inheritance ,try and exception | 1h 30min |
| Day 10 | Advance python | Introduction to Tkinter and installtion | 30 min |
| Day 11 | Advance python | Tkinter widgets,Tkinter geometry | 45 min |
| Day 12 | File handling | Reading files,create/writing files,delete files | 45 min |
| Day 13 | AWS | Introduction to aws | 30 min |
| Day 14 | AWS | How to download file and sendinf file to aws | 45 min |
| Day 15 | project | - |  |
| Day 16 | IOT | Introduction to raspberry pi,install raspbian os ,and basics | 45 min |
| 16 | IOT | Introduction to iot components | 30 min |
| Day 17 | IOT | Introduction to sensors(water ,gas,flame,pir) | 30min |
| Day 18 | IOT | Sensors projects(ultrsoni,dht11),  Iot cloud application (blynk,ubidots) | 1h 30min |
| Day 19 | PROJECT | - |  |
| DAY 20 | IOT PROJECT | Controlling lights and fan.  Operating open and close door. | 1h 30min |
| Day 21 | Home automation | Home automation using telegram and voice recognition using google assistants | 1h 30 min |
| Day 22 | IOT with opencv | Camera module,webcam detection,face detection | 1h |
| Day 23 | IOT with AWS | Sensor values to cloud and images sending/downloading from cloud | 1h |
| Day 24 | IOT with ML | Face recognition, | 1h |
| Day 25 | Project | - |  |