

Mobile Application Development

Requirements:

A. Hardware:

- Participants have to carry their own laptop.
- Internet connectivity should be carried by participants only.
- Student have to download SDK Manager (Emulator) for running an application.
- Minimum 4 GB RAM is required in all laptop if participant is using Android Studio.
- Use of USB Cable is allowed only for running app in mobile if participant doesn't have any emulator in laptop.

B. Software:

- Participants can use any software on their laptop for building an app like Android Studio, and many other.
- You can use any database like Oracle, PostgraceSQL etc.

What participant have to performed in application:

- The participants can design an application using languages like Java, Kotlin and many other.
- The participants can download images through internet to create an interactive mobile application.
- Participant can also add background image for making an interactive application.
- Mobile app should be user friendly and simple in design.
- Participant have to create a database and mobile app should be linked with it.
- Application must good in functioning.

Mobile App Development Rules:

1. Only solo entry is allowed.
2. Use of Internet is allowed.
3. Time duration is 45 minutes.
4. Write code by your own.
5. Topics will be given on the spot.
6. Any external storage device is not allowed.

7. Carry your College ID.
8. If any participants misbehave then he/she will be disqualified.

Participants Judge on basis of:

- App should be completed in time.
- App should be working in proper way.
- App should be well designed.
- Information must be stored in database and can be access easily.

Web programming

Requirement of student:

A. Hardware:

- Laptop (Charged).
- Internet connection (mobile hotspot).
- Laptop charger (If needed).

B. Software: Participants can use software like-Visual Studio, RJ TextEd, or RubyMine etc.

What Participants have to perform in Web programming:

- The participants have to design a website by using any platform.
- The participants can download images through internet to create an interactive website.
- **Background Images Catch the Eye:** Make your homepage memorable.
- **Minimize Loading Time:** Reduce page load time and increase engagement.
- Keep it simple but make it exciting.
- Design: appropriateness, ease of use, visual appeal etc.
- Content: quality and quantity of information; quality of writing and images.
- Technical: functionality, performance (including download speed), interactive features.
- The evaluation of website can be done on basis of look and feel of website, how much it is user friendly and interactive.

Rules and Regulation:

1. Time Duration 45 min.
2. Pen drive is not allowed.
3. Make your website responsive.
4. Write your own code.
5. If any participant misbehaves then HE/SHE will be disqualified.
6. If anything gets change then it will get inform you on the spot.

7. Carry your College ID.
8. Group entries are not allowed.
9. Topic will be given on the spot.

Participants Judge on basis of:

- Look and Feel.
- Simple and Interactive.
- Less Loading Time.

Query Fire

Requirement for Student:

- Basic knowledge of database.
- Queries are known to student.
- Carry ID cards of college.

What participants has to do:

- First of all, Participant registered themselves.
- You have to fire the Queries Using Oracle, MySQL etc.
- Task will be given on the spot.

Rules & Regulations:

1. Time Limit is 20 minutes.
2. Internet, mobile uses prohibited.
3. Group Entries is not allowed (Single participants are allowed).
4. Uses of pen drive are strictly not allowed.

Judging on Basis of:

- Time taken to execute given queries.
- Result of the query fired.

Bug Hunting

What participants have to do:

- The Program will be given in either C or Python language.
- The program contains different type of errors.
- The participants have to find and solve all errors to compile and execute the program.
- Participants must show the final output to judge.

Rules and Regulations:

1. Time Duration 20 minutes.
2. Internet and Pen drive is strictly prohibited.
3. If any participant misbehaves then HE/SHE will be disqualified.
4. If anything gets change then it will get inform you on the spot.
5. Carry your College ID.
6. Only solo entry is allowed.

Participants Judge on basis of:

- Executable program
- Must be finish in Less Time.