## Mobile App Development

| **Course Code** | 20SA8651 | **Year** | III | **Semester** | II |
|---|---|---|---|---|---|
| **Course Category** | SOC | **Branch** | CSE | **Course Type** | Practical |
| **Credits** | 2 | **L-T-P** | 1-0-2 | **Prerequisites** | Programming with Java, DBMS, Advanced Java and Web Technologies |
| **Continuous Internal Evaluation :** | -- | **Semester End Evaluation:** | 50 | **Total Marks:** | 50 |

| **Course Outcomes** | | |
|---|---|---|
| Upon successful completion of the course, the student will be able to | | |
| **CO1** | Apply the basic of android to develop android applications | **L3** |
| **CO2** | Develop various applications as an individual or team | **L3** |
| **CO3** | Develop an effective report based on various programs implemented | **L3** |
| **CO4** | Apply technical knowledge for a given problem and express with an effective oral communication | **L3** |
| **CO5** | Analyze outputs generated using android application | **L4** |

**Contribution of Course Outcomes towards achievement of Program Outcomes & Strength of correl tions (3:Substantial, 2: Moderate, 1:Slight)**

| | **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** | **PSO1** | **PSO2** |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **CO1** | | | | | | | | | | | | | 3 | |
| **CO2** | | | | | 2 | | | | 2 | | | | | |
| **CO3** | | | | | | | | | | 3 | | | | |
| **CO4** | | | | | | | | | | 3 | | | | |
| **CO5** | | 2 | | | | | | | | | | | | |

| Expt. No. | Course Content | Mapped CO |
|---|---|---|
| **1** | Build mobile application based on the concept activity life cycle with Custom Toast. | **CO1, CO2, CO3, CO4, CO5** |
| **2** | Build mobile application using different layouts (use any 3 layouts) | **CO1, CO2, CO3, CO4, CO5** |
| **3** | Build mobile application using different dialogs (use any 2 dialogs) | **CO1, CO2, CO3, CO4, CO5** |
| **4** | Build mobile application using Recycler View | **CO1, CO2, CO3, CO4, CO5** |
| **5** | Build mobile application to switch from one activity to another using Intent. | **CO1, CO2, CO3, CO4, CO5** |
| **6** | Build mobile application to demonstrate Dynamic Fragments | **CO1, CO2, CO3, CO4, CO5** |
| **7** | Build mobile application serverless database SQLite Database, Firebase (cloud-hosted database) | **CO1, CO2, CO3, CO4, CO5** |
| **8** | Build mobile application based on the **Google Maps** | **CO1, CO2, CO3, CO4, CO5** |

**Learning Resources**

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|---|---|
| Reference Books | 1. Professional Android, Reto Meier, Ian Lake, 4th Edition, 2018, Wrox<br>2. Head First Android Development: A Brain-Friendly Guide, Dawn Griffiths, David Griffiths, 2015, O′Reilly |

***Note: The above experiments are listed in generic format. Course Coordinators are advised to implement the above generic experiments using emerging technologies like: Flutter / Android Studio / .net core 5 …**