# MOBILE APPLICATION DEVELOPMENT

## (Android Programming)

## COURSE INTRO

**3rd Sem, MCA**

**Dept. of Data Science & Computer Applications**

# COURSE DETAILS

| | |
|---|---|
| Subject Code: | MCA 5162 |
| Credit: | 2 |
| ~~Lecture Hours:~~ | ~~0~~ |
| Lab/Tutorial Hours: | 3 + 1 |
| Contacts hours per week: | 3 + 1 |
| No. of Contact Weeks: | 12 |
| Self Study Hours: | 48 |
| Teaching Staff: | **Mr. SSS Shameem**<br>Assistant Professor,<br>Dept. of Data Science & Computer Applications, MIT |

# LECTURER INFO

**SSS Shameem**

www.ride4pride.weebly.com

## Current

**Assistant Professor** **(2021 onwards)**

Dept. of Data Science & Computer Applications (DSCA),
Manipal Institute of Technology (MIT),
Manipal Academy of Higher Education (MAHE), INDIA.


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## Earlier

**Assistant Professor** **(2017 – 2021)**

Dept. of Computer Engineering & Computer Sciences,
School of Science & Engineering (SoSE),
Manipal International University (MIU), Malaysia.

**Assistant Professor** **(2011 - 2017)**

Dept. of Computer Applications,
Manipal Institute of Technology,
MAHE, INDIA.

**Assistant Software Developer** **(2011)**

Huawei Technologies Pvt. Ltd.,
Bangalore, INDIA.

**Area of Expertise:** **Data Science, Artificial Intelligence, Big Data, Cloud Computing, Software Testing, S/W Engineering & Programming Languages.**

# COURSE OBJECTIVES

**At end of this course, Student should be able to:**

- Understands the basic technologies used by the Android platform.
- Recognizes the structure of an Android application project and use the necessary tools for Android application project.
- Design and develop user Interfaces for the Android platform.
- Apply Java programming concepts to Android application development.
- Demonstrate the ability to handle the client server management using Android application and running through mobile devices.

# COURSE CONTENT

- Introduction to Android Programming,
- Life Cycle, Studio toolkit, Virtual Device,
- Components, Frame, Form-fields,
- Validation, Notification,
- Database.

# COURSE REFERENCES


- *Android Community Experts*, **Android Cookbook**, **O'Reilly Media, Inc., First Edition, 2011**
- *J. Paul Cardle*, **Android App Development in Android Studio**, **Manchester Academic Publishers**
- *Dawn Griffiths & David Griffiths,* **Head First Android Development - A Brain-Friendly Guide**, **O'Reilly Media, Inc., Second Edition, 2017**

# COURSEWORK (TENTATIVE)

| Coursework Components | Total Marks | Schedule (Week #) | Mark Distribution | Evaluation Pattern |
|---|---|---|---|---|
| Continuous Evaluation | 20 | 4 | Record – 5<br>Execution – 7.5<br>Quiz – 7.5 | <5-10> Questions, 15 min<br>MCQ, T/F, Fill blank,<br>Short code writing |
| Mid Term Evaluation | 20 | 7 | R + E – 5<br>Code Writeup – 6<br>Execution – 9 | 1 Question, 50 min<br>Write + Code – 20 + 30 min |
| Mini Project Evaluation | 20 | 11 | Synopsis – 2<br>UI sketch – 2<br>Demo – 8<br>Viva – 8 | 1 Project, 3 month<br>Define, Plan, Sketch,<br>Develop, Demo |
| End Sem Evaluation | 40 | 12 | Code Writeup – 15<br>Execution – 25 | 1 Question, 2 hr<br>Write + Code – 40 + 60 min |
| Total | 100 | | | |

# LET'S START