MOBILE APPLICATION DEVELOPMENT
[As per Choice Based Credit System (CBCS) scheme]
(Effective from the academic year 2017 -2018)
SEMESTER – VI

Subject Code	17CS661	IA Marks	40
Number of Lecture Hours/Week	3	Exam Marks	60
Total Number of Lecture Hours	40	Exam Hours	03

CREDITS – 03

Module – 1	**Teaching Hours**
Get started, Build your first app, Activities, Testing, debugging and using support libraries	**8 Hours**
Module – 2	
User Interaction, Delightful user experience, Testing your UI	**8 Hours**
Module – 3	
Background Tasks, Triggering, scheduling and optimizing background tasks	**8 Hours**
Module – 4	
All about data, Preferences and Settings, Storing data using SQLite, Sharing data with content providers, Loading data using Loaders	**8 Hours**
Module – 5	
Permissions, Performance and Security, Firebase and AdMob, Publish	**8 Hours**

Course outcomes: The students should be able to:

- Design and Develop Android application by setting up Android development environment
- Implement adaptive, responsive user interfaces that work across a wide range of devices.
- Explainlong running tasks and background work in Android applications
- Demonstrate methods in storing, sharing and retrieving data in Android applications
- Discuss the performance of android applications and understand the role of permissions and security
- Describe the steps involved in publishing Android application to share with the world

Question paper pattern:
The question paper will have TEN questions.
There will be TWO questions from each module.
Each question will have questions covering all the topics under a module.
The students will have to answer FIVE full questions, selecting ONE full question from each module.

Text Books:

1. Google Developer Training, "Android Developer Fundamentals Course – Concept Reference", Google Developer Training Team, 2017. https://www.gitbook.com/book/google-developer-training/android-developer-fundamentals-course-concepts/details (Download pdf file from the above link)

Reference Books:

1. Erik Hellman, "Android Programming – Pushing the Limits", 1st Edition, Wiley India Pvt Ltd, 2014.
2. Dawn Griffiths and David Griffiths, "Head First Android Development", 1st Edition, O'Reilly SPD Publishers, 2015.
3. J F DiMarzio, "Beginning Android Programming with Android Studio", 4th Edition,

Wiley India Pvt Ltd, 2016. ISBN-13: 978-8126565580
4. AnubhavPradhan, Anil V Deshpande, “ Composing Mobile Apps” using Android, Wiley 2014, ISBN: 978-81-265-4660-2