

# FUTURE VISION BIE

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Future Vision

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<b>MOBILE APPLICATION DEVELOPMENT</b> <b>[As per Choice Based Credit System (CBCS) scheme]</b> <b>(Effective from the academic year 2017 -2018)</b> <b>SEMESTER – VI</b>			
Subject Code	17CS661	IA Marks	40
Number of Lecture Hours/Week	3	Exam Marks	60
Total Number of Lecture Hours	40	Exam Hours	03
<b>CREDITS – 03</b>			
<b>Module – 1</b>			<b>Teaching Hours</b>
Get started, Build your first app, Activities, Testing, debugging and using support libraries			<b>8 Hours</b>
<b>Module – 2</b>			
User Interaction, Delightful user experience, Testing your UI			<b>8 Hours</b>
<b>Module – 3</b>			
Background Tasks, Triggering, scheduling and optimizing background tasks			<b>8 Hours</b>
<b>Module – 4</b>			
All about data, Preferences and Settings, Storing data using SQLite, Sharing data with content providers, Loading data using Loaders			<b>8 Hours</b>
<b>Module – 5</b>			
Permissions, Performance and Security, Firebase and AdMob, Publish			<b>8 Hours</b>
<b>Course outcomes:</b> The students should be able to:			
<ul style="list-style-type: none"> <li>• Design and Develop Android application by setting up Android development environment</li> <li>• Implement adaptive, responsive user interfaces that work across a wide range of devices.</li> <li>• Explain long running tasks and background work in Android applications</li> <li>• Demonstrate methods in storing, sharing and retrieving data in Android applications</li> <li>• Discuss the performance of android applications and understand the role of permissions and security</li> <li>• Describe the steps involved in publishing Android application to share with the world</li> </ul>			
<b>Question paper pattern:</b>			
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.			
<b>Text Books:</b>			
1. Google Developer Training, "Android Developer Fundamentals Course – Concept Reference", Google Developer Training Team, 2017. <a href="https://www.gitbook.com/book/google-developer-training/android-developer-fundamentals-course-concepts/details">https://www.gitbook.com/book/google-developer-training/android-developer-fundamentals-course-concepts/details</a> (Download pdf file from the above link)			
<b>Reference Books:</b>			
1. Erik Hellman, "Android Programming – Pushing the Limits", 1 <sup>st</sup> Edition, Wiley India Pvt Ltd, 2014. 2. Dawn Griffiths and David Griffiths, "Head First Android Development", 1 <sup>st</sup> Edition,			

O'Reilly SPD Publishers, 2015.

3. J F DiMarzio, "Beginning Android Programming with Android Studio", 4<sup>th</sup> 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