| Course Code | | 18CSO102T Cou | | | MOBIL | E APPLICATION DEVELOR | PMENT | | ourse | 0 | | Open Elective | | | | | | | L 3 | T 0 | P 0 | C 3 | | | | |
|---|--|--|--------------------------------|--|---|------------------------------|--|---|------------------------------------|-------------------------|--|-----------------------|--------------------------------------|----------------------|----------|---|--------------------|------------------------------|---------|-----------------------|---------------|-----------------------|-------------------|--------------|--------|---------|
| Pre-requisite Nil Co-requisite Courses | | | Nil Pi | | | civo | Nil | | | | | | | | | | | | | | | | | | | |
| Pre-requisite Nii Co-requisite Courses | | | requisite Courses | NII | | | Progressive Nil Courses | | | | | | | | | | | | | | | | | | | |
| Course Offering Department Computer Science &Engg Data Book / Codes/Standards | | | | | | | | Nil | | | | | | | | | | | | | | | | | | |
| Course Learning Rationale (CLR): The purpose of learning this course is to: | | | | | | | Learning Program Learning Outcomes (PLO) | | | | | | | | | | | | | | | | | | | |
| | | | | | | 1 | 1 2 3 1 2 3 4 5 6 7 8 9 10 11 12 13 | | | | | | 13 | 14 | 15 | | | | | | | | | | | |
| CLR-2 | | | | | | ing required for Appdevelop | ment. | _ | 1- | Ť | | | | | <u> </u> | <u> </u> | | | Ů | | | | | .0 | | <u></u> |
| CLR-3 | : Under | rstand persistenc | e Data s | storage mech | anismin Android | <u> </u> | | | | | | | | | _ | | | £ | | | | | | | | 1 |
| CLR-4 | | | | | | ations and Google Maps ser | vices etc. | Œ |) (% | (% | | on. | | Special | 3 | | | abilli | | ~ | | | | | | 1 |
| CLR-5 | : Devel | op and publish A | ndroid a | applications in | toAndroid Market | | | 88 | 5 | nt (% | | eoge | | | 3 | 10 | | stain | | Wor | | ance | | | | |
| | | | | | | | | I evel of Thinking (Bloom) | xpected Proficiency (%) | Expected Attainment (%) | | Engineering Knowledge | SIS | Jesign & Development | - 5 | rodelii 1 ooi Osage | ale | Environment & Sustainability | | ndividual & Team Work | ⊆ | roject Mgt. & Finance | ife Long Learning | | | |
| Course | Lograina | Outcomes (CLO |). A+ | the and of thi | s course, learners wi | Il ha abla ta: | | - ř | Prof | Atta | | go . | roblem Analysis | Develop | 3 | nodem Tool Usa | 3 | ent 8 | | & Te | communication | gt. & | Lear | | | 1 |
| Course | Learning | Outcomes (CLO |). At | trie eria or trii | s course, learners wi | ii be able to. | | ofT | ted | ge | | eerii | me ' | ي. الح ي: الت | 5 H | = 0 | ŏ <u>></u> - | ŭ | " | dual | E | ž | ong | - | - 2 | - 3 |
| | | | | | | | | eve | xpec | xbec | | E : | 0 | vesign & | 5 | | 99 | Σ | Ethics | iğ | omc | 'oje | ife L | SO - 1 | SO - 2 | PSO. |
| CLO-1 | : Acquir | e the knowledge | on And | droid devices | and Platform | | | 2 | ш | 85 | † | L | - ' | - < | . 1 | 2 0 | | - | - | - | - | - | - | - | - | - |
| CLO-2 | | | | | | ing required for Appdevelopi | ment. | 2 | | | 1 F | | - 1 | Ч . | _ | <u>. </u> | - - | - | - | - | - | - | - | - | - | - |
| CLO-3 | | | | | orage mechanismin A | | | 2 | 85 | 80 | | - | - 1 | 4 | . | - - | - - | - | - | - | - | - | - | - | - | - |
| CLO-4 | | | | | | rking, Animations and Googl | le Maps services etc. | 2 | | 75 | | _ | - 1 | 4 | | 1 . | - | - | - | - | - | - | - | - | - | - |
| CLO-5 | : Desigr | n and apply the k | nowledg | ge to publish <i>i</i> | Android applications i | n toAndroid Market | | 2 | 75 | 85 | | Н | - | - <i>I</i> | 1 | - - | - | - | - | - | - | - | - | - | - | - |
| Dur | ation | | 9 | | | 9 | 7 | | | - 1 | | | | 10 | | | | | | | | 10 | | | | |
| - | our) | | 9 | | | 9 | 1 | | | | | | | 10 | | | | | | | | 10 | | | | |
| _ | | | Introduction to Different Date | a | Services :introduction to services- Introduction to | | | | ıction to Location based services | | | | | | | | | | | | | | | | | |
| | | | activities life-cy | | | | localservice, | | | | | | | | | | | | | | | | | | | |
| S-2 | S-2 SLO-1 introduction to various platforms, Android v7 supportlibrar | | | Shared preferences | | | | remote service and binding theservice,. | | | | | Google maps V2 services using Google | | | | | le | | | | | | | | |
| | SLO-2 | | | | for lower version | | | | | API. | | | | | | | | | | | | | | | | |
| S-3 | SLO-1 | introduction to si | mart pho | ones | Intent :intent o | bject | File Handling se | | | | the communication between serviceand Animations and Graphics: Propel activity, Intent Service Animation. | | | | | roper | ty | | | | | | | | | |
| | SLO-2 | | | | | | | | | | activity, | Inten | Sen | rice | | | | Ai | nımatı | on . | | | | | | |
| S-4 | | | Managing data using SQLit | SQLite databa MultiThreading: Handlers View Ar | | | | | iew Animations, DrawableAnimations | | | | | | | | | | | | | | | | | |
| 0 4 | SLO-2 platform, features and architecture, | | iwanaging data daing OQLI | o dall | wataba Walifi Madaling, Manalolo | | | | | abici | | ationic | | | | | | | | | | | | | | |
| S-5 | | versions ,compa | | | in linking activitie | s, user interfacedesign | Content providers: | | | | Async | ask | | | | | | М | ledia a | and C | amera | a AP | I: Wo | rking | | |
| | SLO-2 | each versions. | | | components | | , | | | | | | | | | | | | ithvide | | | | | | | |
| S-6 | | ART(Android | | | Views and Vie | w Groups: Basic | user content provider | | | | android | | | | | | | C | amera | API | | | | | | |
| | SLO-2 | Runtime),ADB(A | \ndroidD | ebug Bridge) | | ews, adapter views, | | | | | prograi | nming | :Httpl | JrlCon | nectio | n | | | | | | | | | | |
| | | | | | Menu, App Ba design; differe | retc, basics of screen | | | | | | | | | | | | | | | | | | | | |
| S 7 | SLO-1 | Dovolonment on | vironmo | nt/IDE: Andro | | | Android in build contant pro | vidor | | | Connec | tina ta | DEG | T has | nd and | 1 50/ | 1D | C. | ensor | nrogi | amm | ina: I | Motio | 2 000 | core | |
| 3-1 | -7 SLO-1 Development environment/IDE: Android App widgets.Lollipop Materialdesign: new Android in build content properties of SLO-2 studio and its working environment themes, new widgets, Cardlayouts. | | viueis | • | | based | | | | ou and | 1 307 | ٦/ | 30 | GIISUI | progr | ammi | iriy. i | violioi | 1 3011 | 3013 | | | | | | |
| | RecyclerView | | | 2000 1100 00111000 | | | | | | | | | | | | | | | | | | | | | | |
| S-8 | SLO-1 | SLO-1 gradle build system, emulator setup Fragments: Introduction to activities, | | | Broad Position se | | | | sens | nsors, Environmental | | | | | | | | | | | | | | | | |
| | SLO-2 | | | | castreceivers:LocalBroadcastManager,D sensors. | | | | | | | | | | | | | | | | | | | | | |
| 0.0 | 01.0.4 | | | | | | ynamic broadcast receiver System Broadcast. PendingIntent, Publishing Android Apps: Guide li. | | | | | , | | | | | | | | | | | | | | |
| S-9 | | Application anato | | ologi roggi | activities life-cy | /CIe. | | | | | Syster Notifica | | dcast | . Pend | ıngInt | ent, | | Ρι | ublishi | ng Ai | ndroid | 1 Арр | s: Gu | ıde li | nes. | |
| | | Applicationframe layout, values,as | | | | | | | | | INOUIIC | เบบบร | | | | | | | | | | | | | | |

| | and generatedR.Javafile ,Android manifest file. Creating asimple application. | | |
|-----------------------|--|--|---|
| S-10 | | | policies and process of uploading Apps toGoogle play |
| Learning Resources | Dawn Griffiths, David Griffiths, "Head First: Android Development" OReilly 2015 ISBN 9781449362188 | 3. PaulDeital, Harvey Deital, AlexanderWald, "Android6 for Program. Prentice Hall ISBN 9780134289366 | nmers, App Drivenapproach",2015, |

| Learning | 1. | Dawn Griffiths, David Griffiths, "Head First: Android Development" | 3. | PaulDeital, Harvey Deital, AlexanderWald, "Android6 for Programmers, App Drivenapproach",2015, |
|-----------|----|---|----|--|
| Resources | | ,OReilly2015,ISBN:9781449362188. | | Prentice Hall ,ISBN:9780134289366. |
| | 2. | Greg Milette, Adam Stroud, "PROFESSIONAL Android™ Sensor Programming", John Wiley and | 4. | http://developer.android.com/training/index.htmlas on Date21.4.2016 |
| | | Sons, Inc2012,ISBN/978111265055,9781280678943,978111227459 | | |

| Learning Ass | sessment | | | | | | | | | | | |
|--------------|-------------------|--------|-------------------------------------|--------|----------|--------|----------|---------|----------|--------|----------|--|
| | Bloom's | | Continuous Learning Assessment (50% | | | | | | | | | |
| | Level of Thinking | | weightage) | | | | | | | | | |
| | | CLA – | CLA – 1 (10%) CLA – 2 (15%) | | | CLA – | 3 (15%) | CLA – 4 | 1 (10%)# | | | |
| | | Theory | Practice | Theory | Practice | Theory | Practice | Theory | Practice | Theory | Practice | |
| Level 1 | Remember | 40 % | - | 30 % | - | 30 % | - | 30 % | - | 30% | - | |
| | Understand | | | | | | | | | | | |
| Level 2 | Apply | 40 % | - | 40 % | - | 40 % | - | 40 % | - | 40% | - | |
| | Analyze | | | | | | | | | | | |
| Level 3 | Evaluate | 20 % | - | 30 % | - | 30 % | - | 30 % | - | 30% | - | |
| | Create | | | | | | | | | | | |
| | Total | 100 % | | 0 % | 10 | 0 % | 10 | 0 % | 100 % | | | |

[#] CLA – 4 can be from any combination of these: Assignments, Seminars, Tech Talks, Mini-Projects, Case-Studies, Self-Study, MOOCs, Certifications, Conf. Paper etc.,

| Course Designers | | |
|-----------------------|--|----------------------------|
| Experts from Industry | Experts from Higher Technical Institutions | Internal Experts |
| | 1. Dr. KHANNA NEHEMIAH , Professor, Ramanujan Computing, Anna University | 1. Dr.M.UMA |
| | | 2. Dr.Ganesh Kumar, SRMIST |
| | | 3.Mr.K.Naveen |