

**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR**  
(AUTONOMOUS)

**B.Tech. IV Year I Semester Regular & Supplementary Examinations October/November-2025**

**MOBILE APPLICATION DEVELOPMENT FOR IOT**

CSE (Internet of Things and Cyber security Including Block Chain Technology)

**Time: 3 Hours**

**Max. Marks: 60**

(Answer all Five Units 5 x 12 = 60 Marks)

**UNIT-I**

- |   |   |  |     |    |    |
|---|---|--|-----|----|----|
| 1 | a | Draw the neat diagram an IoT Architecture outline. | CO1 | L2 | 6M |
|   | b | Explain about Building an architecture.            | CO1 | L2 | 6M |

**OR**

- |   |   |   |     |    |    |
|---|---|---|-----|----|----|
| 2 | a | What are the Main design principles of IoT. | CO1 | L1 | 6M |
|   | b | Differentiate M2M and IoT.                  | CO1 | L4 | 6M |

**UNIT-II**

- |   |   |   |     |    |    |
|---|---|---|-----|----|----|
| 3 | a | Demonstrate the importance of embedded OS.  | CO2 | L2 | 6M |
|   | b | List the characteristics of mobile devices. | CO2 | L1 | 6M |

**OR**

- |   |  |  |     |    |     |
|---|--|--|-----|----|-----|
| 4 |  | Discuss on performance, usability, security, availability and modifiability. | CO2 | L2 | 12M |
|---|--|--|-----|----|-----|

**UNIT-III**

- |   |   |  |     |    |    |
|---|---|--|-----|----|----|
| 5 | a | What are the Benefits of IoT-based Mobile Apps?  | CO4 | L1 | 6M |
|   | b | Explain about IOT mobile App Development Trends. | CO4 | L2 | 6M |

**OR**

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|---|--|--|-----|----|-----|
| 6 |  | Explain about Challenges of UX/UI design for IoT applications. | CO3 | L3 | 12M |
|---|--|--|-----|----|-----|

**UNIT-IV**

- |   |   |  |     |    |    |
|---|---|--|-----|----|----|
| 7 | a | Describe in detail about the android architecture. | CO5 | L1 | 6M |
|   | b | Discuss about the activities in android.           | CO5 | L2 | 6M |

**OR**

- |   |   |                                       |     |    |    |
|---|---|---------------------------------------|-----|----|----|
| 8 | a | Describe about Application Packaging. | CO5 | L1 | 6M |
|   | b | Evaluate the features of Wi-fi.       | CO5 | L5 | 6M |

**UNIT-V**

- |   |  |   |     |    |     |
|---|--|---|-----|----|-----|
| 9 |  | Briefly Explain how to build First IOT Android app. | CO6 | L2 | 12M |
|---|--|---|-----|----|-----|

**OR**

- |    |  |  |     |    |     |
|----|--|--|-----|----|-----|
| 10 |  | Briefly Explain about Raspberry board. | CO6 | L2 | 12M |
|----|--|--|-----|----|-----|

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