

**Faculty of Information and Communication Engineering**

**B.E. Computer Science and Design**

**(R 2021) Semester – II**

**CD3281 Data Structures and Algorithms Laboratory**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Required numbers (for batch of 30 students)</b>
1.	INTEL based desktop PC with min. 8GB RAM and 500 GB HDD, 17” or higher TFT Monitor, Keyboard and mouse	30
2.	Windows 10 or higher operating system / Linux Ubuntu 20 or higher	30
3.	Dev C++ / Eclipse CDT / Code Blocks / CodeLite / equivalent open source IDE	30

**Faculty of Information and Communication Engineering**

**B.E. Computer Science and Design**

**(R 2021) Semester – III**

**CD3281 Data Structures and Algorithms Laboratory**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Required numbers (for batch of 30 students)</b>
<b>1</b>	INTEL based desktop PC with min. 8GB RAM and 500 GB HDD, 17” or higher TFT Monitor, Keyboard and mouse	30
<b>2</b>	Windows 10 or higher operating system / Linux Ubuntu 20 or higher	30
<b>3</b>	Dev C++ / Eclipse CDT / Code Blocks / CodeLite / equivalent open source IDE	30

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**B.E. Computer Science and Design**

**(R 2021) Semester – IV**

**CS3481 DATABASE MANAGEMENT SYSTEMS LABORATORY**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Required numbers (for batch of 30 students)</b>
1.	INTEL based desktop PC with min. 8GB RAM and 500 GB HDD, 17" or higher TFT Monitor, Keyboard and mouse	30
2.	Windows 10 or higher operating system / Linux Ubuntu 20 or higher	30
4.	Oracle Database 12 or higher, MySQL 5.7 or higher versions, SQL Server 2022(16.x)	30

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**IT3681 Mobile Application Development Laboratory**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Required numbers (for batch of 30 students)</b>
<b>1</b>	Android Studio	
<b>2</b>	Windows 10 or higher operating system / Linux Ubuntu 20 or higher	30
<b>3</b>	Dev C++ / Eclipse CDT / Code Blocks / CodeLite / equivalent open source IDE	30

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**(R 2021) Semester – IV**

**CD3412 Visual Design and Communication Laboratory**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Required numbers (for batch of 30 students)</b>
<b>1</b>	INTEL based desktop PC with min. 8GB RAM and 500 GB HDD, 17” or higher TFT Monitor, Keyboard and mouse preferably with an additional Graphics card	30
<b>2</b>	Windows 10 or higher operating system / Linux Ubuntu 20 or higher	30
<b>3</b>	GIMP, INKSCAPE / SKENCIL / EQUIVALENT open source editing software	30

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**B.E. Computer Science and Design**

**(R 2021) Semester – IV**

**CD3411 IOT BASED DESIGN LABORATORY**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Required numbers (for batch of 30 students)</b>
<b>1</b>	HP Elite 7100 MT, Intel core i7 3.4 GHz with 8GB RAM and 1TB HDD, 18.5’’ TFT Monitor, Keyboard and mouse	30
<b>2</b>	Windows 10 operating system	30
<b>3</b>	Android Studio / Equivalent	
<b>4</b>	Raspberry Pi / Arduino / equivalent, sensors, actuators	
<b>5</b>	Guest OS using Virtual box / VMware Cloudsim3.0 or higher / Equivalent	

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**(R 2021) Semester – V**

**CD3511 Mixed Reality Laboratory**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Required numbers (for batch of 30 students)</b>
<b>1</b>	INTEL based desktop PC with min. 8GB RAM and 500 GB HDD, 17” or higher TFT Monitor, Keyboard and mouse  with special GPU of 8 GB RAM	30
<b>2</b>	Windows 10 or higher operating system / Linux Ubuntu 20 or higher	30
<b>4</b>	Virtual Reality (VR) Headset, Data Gloves and other accessories, Augmented Reality (AR), Motion Tracking, UNITY or equivalent	30

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**(R 2021) Semester – VI**

**CD3611 Web Design and Development Laboratory**

<b>Sl. No.</b>	<b>Description of Equipment</b>	<b>Required numbers (for batch of 30 students)</b>
<b>1</b>	INTEL based desktop PC with min. 8GB RAM and 500 GB HDD, 17” or higher TFT Monitor, Keyboard and mouse	30
<b>2</b>	Windows 10 or higher operating system / Linux Ubuntu 20 or higher	30
<b>3</b>	phpMyAdmin, XAMPP / LAMP / equivalent Web server	
<b>4</b>	Angular / Node / React JS	