#### **Practical Plan**

**Branch: Computer Engineering** 

Semester: VI Year: 2022-23

Course Title: Mobile Computing (CSL603)	SEE: 2 Hours – Practical
Total Contact Hours: 20 Hours	
Practical Plan Author: <b>Dr. Ashok Kanthe</b>	Date: 05/01/2023
Checked By:	Date:

**Prerequisites:** Computer Networks

### **Course Outcomes (CO):**

On successful completion of course learner will be able to:

CSL603.1: Develop and demonstrate mobile applications using various tools

CSL603.2: Articulate the knowledge of GSM, CDMA & Bluetooth technologies and demonstrate it.

CSL603.3: Students will able to carry out simulation of frequency reuse, hidden/exposed terminal problem

CSL603.4: Implement security algorithms for mobile communication network

CSL603.5: Demonstrate simulation and compare the performance of Wireless LAN

**CO-PO Mapping:** (BL – Blooms Taxonomy, C – Competency, PI – Performance Indicator)

СО	BL	C	PI	PO	Mapping
CSL603.1.	3	2.4	2.4.1	PO2	1
			2.4.2		
		5.2	5.2.2	PO5	1
CSL603.2.	2, 3	5.1	5.3.2	PO5	1
		5.2	6.1.1	PO5	1
CSL603.3.	3	1.3	1.3.1	PO1	1
		2.2	2.2.3	PO2	1
		3.2	3.2.2	P03	
CSL603.4.	3	4.1	4.1.1	PO4	1
			4.1.2		1
CSL603.5	3	2.2	2.2.4	PO2	1
		4.1	4.1.1	PO4	1
			4.1.2		1

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	<b>PO12</b>
CSL602.1		1			1							
CSL602.2					1	1						
CSL602.3	1	1										
CSL602.4	1	1	1									
CSL602.5		1		1								

**CO-PSO Mapping:** 

CO 100 mapping.						
	CO	BL	C	PI	PO	Mapping

	PSO1	PSO2
CSL602.1.		
CSL602.2.		ı
CSL602.3.		-
CSL602.4.		-

**CO** Measurement Weightages for Tools:

Course Outcomes		Indirect Method (20%)		
Outcomes	Lab	Assignments/Post		Course exit
	Performance	Lab Questions	End Sem Exam	survey
CSL602.1	30%	20%	50%	100%
CSL602.2	30%	20%	50%	100%
CSL602.3	30%	20%	50%	100%
CSL602.4	30%	20%	50%	100%
CSL602.5	30%	20%	50%	100%

## **Attainment:**

#### CO CSL603.1:

Direct Method

 $A_{\text{CSL}603.1D} = 0.3 * Lab\ Performance + 0.2 * Assignment/Post\ Lab + 0.6 * SEE\_TW$  Final Attainment:

$$A_{\text{CSL}602.1} = 0.8 * A_{\text{CSL}602.1D} + 0.2 * A_{\text{CSL}602.1I}$$

#### CO CSL603.2:

Direct Method

 $A_{\text{CSL}603.2D} = 0.3 * Lab\ Performance + 0.2 * Assignment/Post\ Lab + 0.6 * SEE\_TW$  Final Attainment:

$$A_{\text{CSL}602.2} = 0.8 * A_{\text{CSL}602.2D} + 0.2 * A_{\text{CSL}602.2I}$$

#### CO CSL603.3:

Direct Method

 $A_{\text{CSL}603.3D} = 0.3 * Lab\ Performance + 0.2 * Assignment/Post\ Lab + 0.6 * SEE\_TW$  Final Attainment:

$$A_{\text{CSL}602.3} = 0.8 * A_{\text{CSL}602.3D} + 0.2 * A_{\text{CSL}602.3I}$$

#### CO CSL603.4:

Direct Method

 $A_{\text{CSL}603.4D} = 0.3 * Lab \ Performance + 0.2 * Assignment/Post \ Labs + 0.6 * SEE\_TW$  Final Attainment:

$$A_{\text{CSL}602.4} = 0.8 * A_{\text{CSL}602.4D} + 0.2 * A_{\text{CSL}602.4D}$$

#### CO CSL603.5:

Direct Method

 $A_{\text{CSL}603.4D} = 0.3 * Lab \ Performance + 0.2 * Assignment/Post \ Labs + 0.6 * SEE\_TW$  Final Attainment:

$$A_{\text{CSL}602.5} = 0.8 * A_{\text{CSL}602.4D} + 0.2 * A_{\text{CSL}603.5I}$$

# Practical Session Plan

Batch	Da	tes	Remarks
	Planned	Actual	
Experiment No	o. 1		
Implementation	n of mobile network using	g network simulator (NS	(2):create a mobile adhoc network
A	24/01/2023	25/01/2023	
В	25/01/2023	24/01/2023	
C	23/01/2023	23/01/2023	
D	20/01/2023	27/01/2023	
Experiment No	0. 2		
To implement a	Bluetooth network with a	application as a transfer	of a file from one device to another.
A	31/01/2023	01/02/2023	
В	08/02/2023	31/01/2023	
С	30/01/2023	30/01/2023	
D	02/02/2023	03/02/2023	
Experiment No	o. 3		
		se concept to find the co	channel cells for a particular cell.
A	07/02/2023	08/02/2023	
В	15/02/2023	07/02/2023	
С	07/02/2023	06/02/2023	
D	09/02/2023	10/02/2023	
Experiment No	). 4		
	terminal problem (NS2)		
	1		
A	14/02/2023	15/02/2023	
В	22/02/2023	14/02/2023	
C	13/02/2023	13/02/2023	
D	16/02/2023	17/02/2023	
Experiment No			
-		vision Multiple Access (C	DMA) to test Orthogonality and
	of a code to be used for CD		,
A	14/03/2023	22/02/2023	
В	08/03/2023	21/02/2023	
C	13/03/2023	21/02/2023	Students were absent
D	23/02/2023		Stadents were assent
Experiment No			
	SSM security algorithm (A3	3/A5/A8)	
10 implement c	Divisorativy augorithms (112	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
A	14/03/2023		
B	15/03/2023	21/02/2023	
C	18/03/2023	21/02/2023	
D	16/03/2023		
Experiment No			l
-	. 7 roid application that creat	es an alert unon roccivin	a massaga
		es an aicit upon receivin	g message.
A	11/03/2023		
В	05/04/2023		

С	29/03/2023	
D	23/03/2023	
Experiment	No. 8	
Set up and co	nfiguration of wireless acces	ss point.
A	12/04/2023	
В	12/04/2023	
С	10/04/2023	
D	06/04/2023	
Experiment	No. 9	
To develop a	n android application that u	uses GPS location information.
A	13/04/2023	
В	15/04/2023	
С	12/04/2023	
D	12/04/2023	
Experiment 1	No. 10	
To develop a	n application that uses GU	Components, Fonts and colors
A	15/04/2023	
В	11/04/2023	
C	13/04/2023	
D	13/04/2023	

Verified	by:
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Programme Coordinator

Subject Expert