Maharashtra State Board of Technical Education, Mumbai

LABORATORY PRACTICAL PLANNING

Institute Name: K. K. Wagh Polytechnic, Nashik   **Date:** 15/12/2025

Academic Year: 2025-26 (EVEN)

Programme: Information Technology (IF)   **Course:Mobile Application Development(MAD)**

Course Code: 316006   **Semester:**Sixth   **Scheme:** K   **Name of Faculty:**Mrs.A.A.Shaikh

Class:TYIF-CRAY   Batch: B/C

• Teaching-Learning & Assessment Scheme:

Course Code	Course Title & Abbr	Course Category	Learning Scheme						Paper Duration (Hrs.)	Assessment Scheme										Total Marks
			Actual Contact Hrs/Week			SLH	NLH	Credits		Theory				Based on LL & TSL Practical				Based on SL		
			CL	TL	LL					FA TH	SA TH	Total		FA-PR		SA-PR		SLA		
										Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	
316006	Mobile Application Development (MAD)	DSC	2	-	4	2	8	4	-	-	-	-	-	25	20	25#	10	25	10	75

Abbreviations: CL- Class Room Learning , TL- Tutorial Learning, LL-Laboratory Learning, SLH-Self Learning Hours, NLH-Notional Learning Hours, FA - Formative Assessment, SA -Summative assessment, IKS – Indian Knowledge System, SLA - Self Learning Assessment

Legends: @ Internal Assessment, # External Assessment, *# On Line Examination, @$ Internal Online Examination

• COURSE LEVEL LEARNING OUTCOMES (COS)

By learning course Mobile Application Development (MAD) Third Year students will be able to achieve & demonstrate the following COs on completion of course based learning.

- CO1 - Interpret the features of android operating system.

- CO2 - Use after configuring Android development environment.

- CO3 - Develop android applications using UI components and layouts.

- CO4 - Create database driven Android applications.

- CO5 - Develop advanced Android applications that requires relevant permissions for security.

• COs, Practical Laboratory Learning Outcome (LLOs) and Mapping:

Pr. No	LLO	Practical Title / Tutorial Title	Planned Date	Performance Date	Remark	Related self learning (if any)
1	1.1	Install Android IDE and create Android virtual device	B-16/12/2025 C-17/12/2025	B- C-		
2	2.1	Develop a program to display "Hello World" on screen	B-18/12/2025 C-19/12/2025	B- C-		
3	3.1	Explore the directory structure in Android IDE	B-18/12/2025 C-24/12/2025	B- C-		
4	4.1	Develop android application using View Text and Edit Text.	B-23/12/2025 C-26/12/2025	B- C-		
5	5.1	Develop a program to implement Button, Image Button and Toggle Button	B-30/12/2025 C-02/01/2026	B- C-		
6	6.1	Develop a program to design Checkbox and Radio button.	B-01/01/2026 C-07/01/2026	B- C-		

Maharashtra State Board of Technical Education, Mumbai

LABORATORY PRACTICAL PLANNING

Institute Name: K. K. Wagh Polytechnic, Nashik   **Date:** 15/12/2025

Academic Year: 2025-26 (EVEN)

Programme: Information Technology (IF)   **Course:Mobile Application Development(MAD)**

Course Code: 316006   **Semester:**Sixth   **Scheme:** K   **Name of Faculty:**Mrs.A.A.Shaikh

Class:TYIF-CRAY   Batch: B/C

7	7.1	Develop a program to implement Progress Bar	B-06/01/2026 C-09/01/2026	B- C-		
8	8.1	Develop a program to create a login form using the above UI controls	B-08/01/2026 C-14/01/2026	B- C-		
9	9.1	Write program to implement Linear layout and Constraint layout to create any registration form with Custom Toast Alert	B-13/01/2026 C-16/01/2026	B- C-		
10	10.1	Develop a program to implement Frame layout, Table layout and Relative layout for any e-commerce application	B-13/01/2026 C-21/01/2026	B- C-		
11	11.1	Develop a program to implement Grid View, Image View, Scroll View, List View for any management system like library management/hotel management	B-15/01/2026 C-23/01/2026	B- C-		
12	12.1	Develop a simple calculator which uses grid layout and GUI concepts	B-20/01/2026 C-30/01/2026	B- C-		
13	13.1	Develop a splash screen in android	B-20/01/2026 C-04/02/2026	B- C-		
14	14.1	Design and develop any convertor application like temperature convertor /currency convertor/ volume convertor	B-22/01/2026 C-06/02/2026	B- C-		
15	15.1	Design and develop a simple countdown timer	B-03/02/2026 C-11/02/2026	B- C-		
16	16.1	Develop a program to implement Date Picker in application	B-05/02/2026 C-13/02/2026	B- C-		
17	17.1	Develop a program to implement Time Picker in application	B-05/02/2026 C-18/02/2026	B- C-		
18	18.1	Develop a program to create two simple activities for Login application	B-10/02/2026 C-20/02/2026	B- C-		
19	19.1	Develop a program to implement new Activity using explicit intent and implicit intent to open any other website	B-12/02/2026 C-25/02/2026	B- C-		

Maharashtra State Board of Technical Education, Mumbai

LABORATORY PRACTICAL PLANNING

Institute Name: K. K. Wagh Polytechnic, Nashik   **Date:** 15/12/2025

Academic Year: 2025-26 (EVEN)

Programme: Information Technology (IF)   **Course:** Mobile Application Development(MAD)

Course Code: 316006   **Semester:** Sixth   **Scheme:** K   **Name of Faculty:** Mrs.A.A.Shaikh

Class: TYIF-CRAY   Batch: B/C

20	20.1	Develop a program to implement services like bluetooth/wifi	B-12/02/2026 C-27/02/2026	B- C-		
21	21.1	Develop a program to implement a broadcast receiver to switch between different modes like Airplane mode/Silent Mode/Loud Mode	B-24/02/2026 C-06/03/2026	B- C-		
22	22.1	Develop a registration application to insert and retrieve the data from the database	B-26/02/2026 C-11/03/2026	B- C-		
23	23.1	Develop an authentication application which uses database concepts	B-05/03/2026 C-13/03/2026	B- C-		
24	24.1	Develop a program to use camera	B-05/03/2026 C-18/03/2026	B- C-		
25	25.1	Write a program for SMS application	B-10/03/2026 C-20/03/2026	B- C-		
26	26.1	Develop a program to send and receive email	B-12/03/2026 C-25/03/2026	B- C-		
27	27.1	Write a program that uses location services and checks for permissions	B-17/03/2026 C-27/03/2026	B- C-		
28	28.1	Write a program that creates Navigation drawer using fragment concepts	B-17/03/2026 C-27/03/2026	B- C-		
**		Develop a simple application and publish it on google play store.	B-24/03/2026 C-01/04/2026	B- C-		

ASSESSMENT METHODOLOGIES/TOOLS

A. Formative assessment (Assessment for Learning)

Continuous assessment based on process and product related performance indicators

Each practical will be assessed considering

    60% weightage to process

    40% weightage to product

A continuous assessment based on term work

B. Summative Assessment (Assessment of Learning) (SA-TH)

End semester examination, Lab performance, Viva voce

Mrs. A.A.Shaikh   **Ms. M. S. Karande**

(Name & Signature of Staff)   **(Name & Signature of HOD)**