

LABORATORY PRACTICAL PLANNING

Academic Year: 2025-26 (EVEN)

MSBTE Code: 0078

Institute Name: K. K. Wagh Polytechnic, Nashik

Program and Code: Information Technology (IF)

Course Code & Abbr.: 316006 (MAD)

Course Name: Mobile Application Development

Name of Faculty: Mrs. D. D. Pawar

Class: TYIF-PARAM

Semester: 6th

Scheme: K

● Teaching-Learning & Assessment Scheme:

Course Code	Course Title & Abbr	Course Category	Learning Scheme				Credits	Paper Duration (Hrs.)	Assessment Scheme										Total Marks					
			Actual Contact Hrs/Week			SLH	NLH		Theory			Based on LL & TSL Practical				Based on SL								
			CL	TL	LL				FA 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	A-16/12/2025 B-15/12/2025 C-15/12/2025			
2	2.1	Develop a program to display “Hello World” on screen	A-19/12/2025 B-17/12/2025 C-18/12/2025			
3	3.1	Explore the directory structure in Android IDE	A-23/12/2025 B-22/12/2025 C-22/12/2025			
4	4.1	Develop android application using View Text and Edit Text.	A-26/12/2025 B-24/12/2025 C-29/12/2025			
5	5.1	Develop a program to implement Button, Image Button and Toggle Button	A-30/12/2025 B-29/12/2025 C-05/01/2026			
6	6.1	Develop a program to design Checkbox and Radio button.	A-02/01/2026 B-31/12/2025 C-08/01/2026			

Maharashtra State Board of Technical Education, Mumbai

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7	7.1	Develop a program to implement Progress Bar	A-06/01/2026 B-05/01/2026 C-12/01/2026			
8	8.1	Develop a program to create a login form using the above UI controls	A-09/01/2026 B-07/01/2026 C-15/01/2026			
9	9.1	Write program to implement Linear layout and Constraint layout to create any registration form with Custom Toast Alert	A-13/01/2026 B-12/01/2026 C-19/01/2026			
10	10.1	Develop a program to implement Frame layout, Table layout and Relative layout for any e-commerce application	A-16/01/2026 B-14/01/2026 C-22/01/2026			
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	A-20/01/2026 B-19/01/2026 C-02/02/2026			
12	12.1	Develop a simple calculator which uses grid layout and GUI concepts	A-23/01/2026 B-21/01/2026 C-05/02/2026			
13	13.1	Develop a splash screen in android	A-27/01/2026 B-28/01/2026 C-09/02/2026			
14	14.1	Design and develop any convertor application like temperature convertor /currency convertor/ volume convertor	A-30/01/2026 B-02/02/2026 C-12/02/2026			
15	15.1	Design and develop a simple countdown timer	A-03/02/2026 B-04/02/2026 C-16/02/2026			
16	16.1	Develop a program to implement Date Picker in application	A-06/02/2026 B-09/02/2026 C-23/02/2026			
17	17.1	Develop a program to implement Time Picker in application	A-10/02/2026 B-11/02/2026 C-26/02/2026			
18	18.1	Develop a program to create two simple activities for Login application	A-13/02/2026 B-16/02/2026 C-02/03/2026			
19	19.1	Develop a program to implement new Activity using explicit intent and implicit intent to open any other website	A-17/02/2026 B-18/02/2026 C-05/03/2026			

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20	20.1	Develop a program to implement services like bluetooth/wifi	A-20/02/2026 B-23/02/2026 C-09/03/2026			
21	21.1	Develop a program to implement a broadcast receiver to switch between different modes like Airplane mode/Silent Mode/Loud Mode	A-24/02/2026 B-25/02/2026 C-12/03/2026			
22	22.1	Develop a registration application to insert and retrieve the data from the database	A-27/03/2026 B-02/03/2026 C-16/03/2026			
23	23.1	Develop an authentication application which uses database concepts	A-06/03/2026 B-04/03/2026 C-23/03/2026			
24	24.1	Develop a program to use camera	A-10/03/2026 B-09/03/2026 C-30/03/2026			
25	25.1	Write a program for SMS application	A-13/03/2026 B-11/03/2026 C-30/03/2026			
26	26.1	Develop a program to send and receive email	A-17/03/2026 B-16/03/2026 C-28/03/2026			
27	27.1	Write a program that uses location services and checks for permissions	A-20/03/2026 B-18/03/2026 C-28/03/2026			
28	28.1	Write a program that creates Navigation drawer using fragment concepts	A-24/03/2026 B-23/03/2026 C-25/03/2026			
**		Develop a simple application and publish it on google play store.	A-27/03/2026 B-01/04/2026 C-02/04/2026			

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. D. D. Pawar

(Name & Signature of Staff)

Ms. M. S. Karande

(Name & Signature of HOD)