MCA – 4th Semester

Assessment Policy

040010425: Mobile Application Development

Course Credit: 04 Total Hours: 04

Course Objective: To design UI-rich mobile application using advanced GUI components, animation, gesture and produce robust solution using background services, backend, real time database, web service and share data to different platforms.

To determine the progress of the learning, following are composition of CIE parameters:

- Composition of CIE for Theory

Assessment No.	Type of Assessment	Total time	Frequency	Each of marks	Weightage in CIE (Marks)	Tentative weeks
A1	Quiz	55 min.	1	20	4 x 1 = 04	31/01/2020
A2	Unit Test	1.5 hours	2	30	7 x 2 = 14	05/03/2020 02/04/2020
A3	Internal Examination	3 hours	1	60	14 x 1 = 14	21/04/2020
A4	Teacher's choice – Comparative study report for different platform and presentation	15 mins	2	30	4 x 2 = 8	10/03/2020 20/03/2020 – 10/04/2020
				Total	**40**	

- Composition of CIE for Practical

Assessment No.	Type of Assessment	Total time	Frequency	Each of marks	Weightage in CIE (Marks)	Tentative weeks
A5	Unit Test	1 hr 50 mins	2	20	4 x 2 = 8	05/03/2020 02/04/2020
A6	Section Test	4 hours	1	30	8 x 1 = 8	14/04/2020
A7	Journal/Viva	-	-	15 x 15	4 x 1 = 4	27/04/2020
				Total	**20**	

Course Outcomes: Upon completion of the course, the student shall be able to

CO1: Use the different mobile application development platform and core components to build mobile applications.

CO2: Explore and demonstrate UI layout and controls for designing an application.

CO3: Expand user experience with advanced GUI controls like tabs, list, recycler view and map.

CO4: Connect and manage internal data storage, user preference and shared data with mobile application.

CO5: Create background services and user alerts for improving performance of an application.

CO6: Design and compile web services and communication channel for exchanging data with server and other platforms.

Programme Outcomes: The student will have

PO1: Proficiency in and ability to identify problems related to computer science as well as design and apply computational knowledge to solve them.
PO2: Ability to design, develop, test and maintain system, component, product or process as per needs and specification.
PO3: Understanding of professional and ethical role and responsibility.
PO4: Recognition of the need for and an ability towards life-long learning
PO5: Knowledge of programming languages, database systems, operating systems, software engineering, Web & Mobile technology and relevant modern issues.
PO6: Ability to demonstrate the use of modern tools, models and languages to solve problems related to software development
PO7: An ability to communicate and present knowledge effectively.

Theory CIE parameters description:

<table>
<tr><td>Assessment No:</td><td>A1</td><td>Unit covered with its weightage :</td><td colspan="2"><table><tr><th>Unit</th><th>(%)</th></tr><tr><td>1</td><td>80</td></tr><tr><td>2.1</td><td>10</td></tr></table></td></tr>
<tr><td>Type of Assessment:</td><td>Quiz</td><td>Tentative Date :</td><td colspan="2">31/01/2020</td></tr>
<tr><td>Assessment Objective:</td><td colspan="4">To evaluate students understanding skills for core components and different mobile technologies.</td></tr>
<tr><td>Question paper style</td><td colspan="4">Q: 1 Choose most appropriate option from the given choice.
[20x0.5 = 10 M] (Attempt 20 out of 20)
Q: 2 Answer the short questions. [10x1= 10 M]
(Attempt 10 out of 10)
Total Marks: Q:1 +Q:2 =20 Marks</td></tr>
<tr><td>Question category mapping and its weightage:</td><td colspan="4"><table><tr><th>Question Category</th><th>Weightage</th></tr><tr><td>Remembering</td><td>30%</td></tr><tr><td>Understanding</td><td>50%</td></tr><tr><td>Analysis</td><td>20%</td></tr></table></td></tr>
<tr><td>References :</td><td colspan="4">The reference for model quiz question paper is available at http://www.srimca.edu.in/StudentCornerMCA.html.</td></tr>
<tr><td>Course Outcome mapped:</td><td colspan="4">CO1</td></tr>
</table>

<table>
<tr><td>Programme Outcome mapped:</td><td colspan="4">P01, P04, PO6</td></tr>
<tr><td>Assessment No:</td><td>A2</td><td>Unit covered with its weightage :</td><td colspan="2"><table><tr><th>Unit</th><th>(%)</th></tr><tr><td>1</td><td>10</td></tr><tr><td>2</td><td>60</td></tr><tr><td>3.1,3.2,3.3</td><td>30</td></tr></table></td></tr>
<tr><td>Type of Assessment:</td><td>Unit Test – 1</td><td>Tentative Date :</td><td colspan="2">05/03/2020</td></tr>
<tr><td>Assessment Objective:</td><td colspan="4">To evaluate student understanding, analytical, development and technical writing skill for the core components, designing and utilization of advanced GUI controls to develop mobile application.</td></tr>
<tr><td>Question paper style</td><td colspan="4"><table><tr><th>Q.No</th><th>Detail</th><th>Mark of Each</th><th>Category</th><th>Remarks</th></tr><tr><td>Q:1(a)</td><td>Answer in short.</td><td>1</td><td>Understanding</td><td>4 out of 5</td></tr><tr><td>Q:1(b)</td><td>Answer in brief.</td><td>2</td><td>Understanding</td><td>3 out of 4</td></tr><tr><td>Q:2</td><td>Practical’s /scenario based Question (Refer Practical Assignment List)</td><td>5</td><td>Analysis</td><td>2 out of 3</td></tr><tr><td>Q:3</td><td>Answer in detail</td><td>5</td><td>Remembering</td><td>2 out of 3</td></tr><tr><td></td><td></td><td colspan="2">Total Marks</td><td>30</td></tr></table></td></tr>
<tr><td>Question category mapping and its weightage:</td><td colspan="4"><table><tr><th>Question Category</th><th>Weightage</th></tr><tr><td>Remembering</td><td>30%</td></tr><tr><td>Understanding</td><td>30%</td></tr><tr><td>Analysis</td><td>40%</td></tr></table></td></tr>
<tr><td>References :</td><td colspan="4">The reference for model Unit Test-1 question paper is available at http://www.srimca.edu.in/StudentCornerMCA.html.</td></tr>
<tr><td>Course Outcome mapped:</td><td colspan="4">CO1,CO2,CO3</td></tr>
<tr><td>Programme Outcome mapped:</td><td colspan="4">PO1, P02, P05, PO6</td></tr>
</table>

<table>
<tr><td>Assessment No:</td><td>A2</td><td>Unit covered with its weightage :</td><td colspan="2"><table><tr><th>Unit</th><th>(%)</th></tr><tr><td>1,2</td><td>5 for each</td></tr><tr><td>3</td><td>30</td></tr><tr><td>4</td><td>30</td></tr><tr><td>5</td><td>30</td></tr></table></td></tr>
<tr><td>Type of Assessment:</td><td>Unit Test – 2</td><td>Tentative Date :</td><td colspan="2">02/04/2020</td></tr>
<tr><td>Assessment Objective:</td><td colspan="4">To evaluate student understanding, analytical, development and technical writing skill for the core components, designing and utilization of advanced GUI controls to develop mobile application.</td></tr>
</table>

Question paper style

Q.No	Detail	Mark of Each	Category	Remarks
Q:1(a)	Answer in short.	1	Understanding	4 out of 5
Q:1(b)	Answer in brief.	2	Understanding	3 out of 4
Q:2	Practical's /scenario based Question (Refer Practical Assignment List)	5	Analysis	2 out of 3
Q:3	Answer in detail	5	Remembering	2 out of 3
		Total Marks		**30**

Question category mapping and its weightage:

Question Category	Weightage
Remembering	30%
Understanding	30%
Analysis	40%

References : The reference for model Unit Test-2 question paper is available at http://www.srimca.edu.in/StudentCornerMCA.html.

Course Outcome mapped: CO1,CO2,CO3,CO4,CO5

Programme Outcome mapped: PO1, P02, P05, PO6

Assessment No: A3

Unit covered with its weightage :

Unit	(%)
1	15
2	20
3	15
4	20
5	15
6	20

Type of Assessment: Internal Examination

Tentative Date : 21/04/2020

Assessment Objective: Student must able to design UI-rich mobile application using advanced GUI components, animation, gesture and produce robust solution using background services, backend, real time database, web service and share data to different platforms.

Question paper style

Q.No	Detail	Mark of Each	Category	Remarks
Q:1(a)	Answer in short.	1	Understanding	4 out of 4
Q:1(b)	Answer in brief.	2	Understanding	3 out of 4
Q:2	Practical's /scenario based Question (Refer Practical Assignment List)	5	Analysis	2 out of 4
Q:3	Answer in detail	5	Remembering	2 out of 3
Q:4(a)	Answer in short.	1	Understanding	4 out of 4
Q:4(b)	Answer in brief.	2	Understanding	3 out of 4

	Q:5	Practical's /scenario based Question (Refer Practical Assignment List)	5	Analysis	2 out of 4
	Q:6	Answer in detail	5	Remembering	2 out of 3
				Total Marks	**60**

Question category mapping and its weightage:	

Question Category	**Weightage**
Remembering	30%
Understanding	30%
Analysis	40%

References :	The reference for model Internal question paper is available at http://www.srimca.edu.in/StudentCornerMCA.html.
Course Outcome mapped:	CO1,CO2,CO3,CO4,CO5
Programme Outcome mapped:	PO1, P02, P05, PO6

Assessment No:	A4	**Unit covered with its weightage :**	Topic not from the syllabus
Type of Assessment:	Comparative study report for different platform and presentation including demonstration		
Assessment Objective:	• Student must able to expose the technology trends impacting different platform mobile application development. • Promote contribution of students to share course related advanced information and improve presentation skill.		

Action Plan:

Team Formation	22/01/2020
Topic Assignment	30/01/2020
Phase 1: Comparative study document Submission and presentation	10/03/2020
Phase 2: Presentation	20/03/2020 – 10/04/2020

Evaluation Parameters:

Phase 1:

Parameter	**Marks**
On time document submission	05
Document flow and formatting	05
Content Depth	10
Reporting	05
Technical Knowledge and Viva	05
Total	**30**

Phase 2:

Parameter	**Marks**
Incorporate suggestion given during document submission	03

		Demonstration and technical viva	17		
		Team work	05		
		Presentation and communication skill	05		
		Total	**30**		

Guidelines:

- Group of 3 members shall be formed, each team shall given topic by course teacher to study which would be possible with different mobile development platform like iOS, flutter, React Native and google.
- Student have to prepare comparative study report that including detail description to achieve said functionalities in both technology.
- Student must be able to demonstrate and present topic to class by using media technologies.
- No any teams shall have same presentation topic.
- Students shall be followed format of document given by the course teacher.
- Evaluation will be done in two phases :

1. **Phase- 1:**
   - In 1st phase students need to submit comparative study report.
   - Team shall study the topic given by course teacher, team must gather information regarding different ways to develop that functionality in both given technologies by listing available class, external APIS, process and event handling ways.
   - While study student must note down differences, syntax, methods, critical codes, remarks for both said technology.
   - Follow the Report guidelines for formatting.
2. **Phase-2:**
   - In 2nd phase starts after document submission. Once document is approved by the course teacher, team shall prepare presentation and get approval from course teacher to demonstrate the selected topic.
   - Each team shall get 20 minutes for demonstration followed by viva.

Bonus Policy	Team shall have 2 bonus marks, if submitted qualitative document 2 days early. The bonus+marks shall not exceed total marks for CIE.
Penalty Policy	• Late submission of document shall be penalized as 2% of total marks of each parameter per day for maximum five days after the deadline. • Readymade audio-video shall not be allowed for demonstration and if found so all members will get 0 marks for CIE.

<table>
<tr><td></td><td>

- In case, if a student has failed to meet the deadlines, he/she shall receive zero marks in particular parameter

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<tr><td>Technical Report Guidelines</td><td>

- The prepared report must follow the given format as well as it must have qualitative content. Quality can be measured by book and web references which provides in depth knowledge regarding the concept.
- Formatting Guidelines:
  - *Usual points such as document must be free of grammatical mistakes, proper identification, justification and correct statement formation.*
  - *Use A4 size page with 1" margin all sides.*
  - *Header should include Concept title and footer should contain page number and enrollment numbers.*
  - *Chapter Title : Cambria, 20 points*
  - *Main heading : Cambria, 16 points*
  - *Sub heading : Cambria, 12 points*
  - *Line spacing -1.0 lines, before -0, after -0.*
- Report Format [10 pages minimum]
  - *I. Front Page [As per format given at end of document.]*
  - *II. Table of Content/index and figures if applicable.*
  - *1. Introduction of Topic*
  - *2. Description of class, interface, external library required*
  - *3. Comparative study*
  - *4. Application code with comments*
  - *5. Screenshots of developed application with description*
  - *6. References [IEEE format]*

</td></tr>
<tr><td>Question category mapping and its weightage:</td><td>
<table>
<tr><th>Question Category</th><th>Weightage</th></tr>
<tr><td>Understanding</td><td>30%</td></tr>
<tr><td>Analysis</td><td>70%</td></tr>
</table>
</td></tr>
<tr><td>Course Outcome mapped:</td><td>CO1,CO2,CO3,CO4,CO5,CO6</td></tr>
<tr><td>Programme Outcome mapped:</td><td>PO1, P02,PO3,PO4, P05, PO6,PO7</td></tr>
</table>

<table>
<tr><td>Assessment No:</td><td>A5</td><td>Unit covered with its weightage :</td><td>
<table>
<tr><th>Unit</th><th>(%)</th></tr>
<tr><td>1</td><td>30</td></tr>
<tr><td>2</td><td>60</td></tr>
<tr><td>3.1,3.2</td><td>10</td></tr>
</table>
</td></tr>
<tr><td>Type of Assessment:</td><td>Unit Test – 1 (Pr)</td><td>Tentative Date :</td><td>05/03/2020</td></tr>
<tr><td>Minimum number of practical to be certified as eligibility to appear :</td><td colspan="3">4 practical</td></tr>
<tr><td>Assessment Objective:</td><td colspan="3">To check students understanding, analytical and technical skills regarding</td></tr>
</table>

	their learning during the covered units of the course.
Question paper style	Q-1 Do as directed. (05 Marks) Q-2 Write and Implement solution of Practical based on given scenario. (15 Marks)
Question category mapping and its weightage:	**Question Category** / **Weightage** Remembering / 10% Understanding / 20% Analysis / 70%
References :	The reference for practical list is available at http://www.srimca.edu.in/StudentCornerMCA.html.
Course Outcome mapped:	CO1,CO2,CO3
Programme Outcome mapped:	PO1, P02, P05, PO6,PO7

Assessment No:	A5	**Unit covered with its weightage :**	**Unit** / **(%)** 1,2 / 10 for each 3 / 30 4 / 40 5 / 10
Type of Assessment:	Unit Test – 2 (Pr)	**Tentative Date :**	02/04/2020
Minimum number of practical to be certified as eligibility to appear :	10 practical		
Assessment Objective:	Evaluate students understanding, analytical, technical skills and system based problem solving skill.		
Question paper style	Q-1 Do as directed. (05 Marks) Q-2 Write and Implement solution of Practical based on given scenario. (15 Marks)		
Question category mapping and its weightage:	**Question Category** / **Weightage** Remembering / 10% Understanding / 20% Analysis / 70%		
References :	The reference for practical list is available at http://www.srimca.edu.in/StudentCornerMCA.html.		
Course Outcome mapped:	CO1,CO2,CO3,CO4,CO5		
Programme Outcome mapped:	PO1, P02, P05, PO6,PO7		

Assessment No:	A6	**Unit covered with its weightage :**	**Unit** / **(%)** 1 to 6 / 100

<table>
<tr><td>Type of Assessment:</td><td>Section Test</td><td>Tentative Date :</td><td>As per academic Schedule</td></tr>
<tr><td>Minimum number of practical to be certified as eligibility to appear :</td><td colspan="3">15 practical</td></tr>
<tr><td>Assessment Objective:</td><td colspan="3">Evaluate students understanding, analytical, technical skills and system based problem solving skill.</td></tr>
<tr><td>Question paper style</td><td colspan="3">Q-1 Do as directed. (05 Marks)
Q-2 Write and Implement solution of Practical based on given scenario. (22 Marks)
Q-3 Viva (03 Marks)</td></tr>
<tr><td>Question category mapping and its weightage:</td><td colspan="3"><table><tr><th>Question Category</th><th>Weightage</th></tr><tr><td>Remembering</td><td>10%</td></tr><tr><td>Understanding</td><td>20%</td></tr><tr><td>Analysis</td><td>70%</td></tr></table></td></tr>
<tr><td>References :</td><td colspan="3">The reference for practical list is available at http://www.srimca.edu.in/StudentCornerMCA.html.</td></tr>
<tr><td>Course Outcome mapped:</td><td colspan="3">CO1,CO2,CO3,CO4,CO5,CO6</td></tr>
<tr><td>Programme Outcome mapped:</td><td colspan="3">PO1,PO2, P03,PO4, P05, PO6,PO7</td></tr>
</table>

<table>
<tr><td>Assessment No:</td><td>A7</td><td>Unit covered with its weightage :</td><td><table><tr><th>Unit</th><th>(%)</th></tr><tr><td>1 to 6</td><td>100%</td></tr></table></td></tr>
<tr><td>Type of Assessment:</td><td>Journal</td><td>Tentative Date for Certification :</td><td>27/04/2020</td></tr>
<tr><td>Assessment Objective:</td><td colspan="3">To check students understanding, analytical and technical skills regarding real time problems.</td></tr>
<tr><td>Question paper style</td><td colspan="3">Student shall be solved journal practical definition given by course teacher. Practical definition will be based on topics in unit and understanding and analytical type. Total 16 practical definitions will be given and each practical problem carries 15 marks including viva.</td></tr>
<tr><td>Question category mapping and its weightage:</td><td colspan="3"><table><tr><th>Question Category</th><th>Weightage</th></tr><tr><td>Remembering</td><td>10%</td></tr><tr><td>Understanding</td><td>10%</td></tr><tr><td>Analysis</td><td>80%</td></tr></table></td></tr>
<tr><td>Course Outcome mapped:</td><td colspan="3">CO1,CO2,CO3,CO4,CO5,CO6</td></tr>
<tr><td>Programme Outcome mapped:</td><td colspan="3">PO1,PO2, P03,PO4, P05, PO6,PO7</td></tr>
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UFM

- No make-up work shall be accepted for missed or failed test.
- Any ascertained fact of breaking institute policy shall be associated with one or all of the following: (i) zero marks for the work; (ii) report to the Course coordinator; (iii) report to the Director.

Front Page format:

<< Institute Name>>

DOCUMENTATION

ON

<<Name of Topic>>

For the Subject : 040010425 Mobile Application Development

Submitted To :
<<Name of Guide>>

Prepared By :
<<Enrollment No.>>