5 Year’s Integrated M.C.A (8th Semester)
060060804: Cloud Computing Paradigm
Assessment Policy

<table>
<thead>
<tr>
<th>Assessment Code</th>
<th>Assessment Type</th>
<th>Duration of each</th>
<th>Occurrence</th>
<th>Each of marks</th>
<th>Weightage in CIE of 40 marks</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Quiz</td>
<td>55 min.</td>
<td>1</td>
<td>20</td>
<td>4 x 1 = 4</td>
<td>Quiz – Unit – 1 and 2</td>
</tr>
</tbody>
</table>
| A2              | Unit Test                | 1.5 Hours        | 2          | 30            | 4.5 x 2 = 9                | Test – 1 : Based on Unit 1, 2 and 3
|                 |                          |                  |            |                |                             | Test – 2 : Based on Unit 4 and 5             |
| A3              | Self-Creation            |                  | 1          | 30            | 5 x 1 = 5                  | During the semester                          |
| A4              | Internal Examination     | 3 Hours          | 1          | 45            | 12 x 1 = 12                | Internal Exam : Based on all Units           |

Assessment Type Classification:

<table>
<thead>
<tr>
<th>Assessment Code</th>
<th>Assessment Type</th>
<th>Weightage of Content</th>
<th>Unit (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Quiz</td>
<td></td>
<td>1        50</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2, 2, 3  50</td>
</tr>
</tbody>
</table>

Kind of Question Format:

Q1: Choose most appropriate option (Attempt 30 out of 30) [20 question of 0.5 marks and 10 questions of 1 mark. The 30% question shall be of remembering type nature, 50% shall be of understanding type and 20% shall be of analysis type to test knowledge. Total Marks: 20]

To measure:
Knowledge of Cloud Computing environment and its services used in business

Course Outcome:
CO1: Aware about the trends of computing and able to choosing suitable architecture as per the need of organization.
CO2: Evaluate the deployment of web services from cloud architecture.

Programme Outcome:
P03: Understanding of professional and ethical role and responsibility.
P05: Knowledge of programming languages, database systems, operating systems, software engineering, Web & Mobile technology and relevant modern issues.
P06: Ability to demonstrate the use of modern tools, models and languages to solve problems related to software development

<table>
<thead>
<tr>
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<th>Weightage of Content</th>
<th>Unit (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A2</td>
<td>Unit Test - 1</td>
<td></td>
<td>1        20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2        20</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3        60</td>
</tr>
</tbody>
</table>

Kind of Question Format:

Q-1 (A) Short answer questions. Each question consists of 1 mark. 70% questions shall be of understanding type nature whereas 30% shall be of analysis type to test knowledge and analytical skill with one word or a line of answer.

04 marks

Q-1 (B) Answer to the questions in brief. Each question consists of 2 marks. Students have to attempt three questions out of four. 70% questions shall be of understanding type nature whereas 30% shall be of analysis type to test knowledge and analytical skill with two or five lines of answer.

06 marks
Q-1 (A) Short answer questions. Each question consists of 1 mark. 70% questions shall be of understanding type nature where as 30% shall be of analysis type to test knowledge and analytical skill with one word or a line of answer. 04 marks

Q-1 (B) Answer to the questions in brief. Each question consists of 2 marks. Students have to attempt three questions out of four. 60% questions shall be of understanding type nature where as 40% shall be of analysis type to test knowledge and analytical skill with two or five lines of answer. 06 marks

Q-2 (A) Answer to the questions in detail based on scenario given in the questions. Each question consists of 5 marks. Students have to attempt any one question out of two questions. Both the questions shall be of analysis type to test the student's analytical skill and logical skill.

(B) Answer to the questions in detail based on scenario given in the questions. Each question consists of 5 marks. Students have to attempt any one question out of two questions. Both the questions shall be of analysis type to test the student's analytical skill and logical skill. 10 marks

Q-3 Answer to the questions in detail. Each question consists of 5 marks. Students have to attempt any two questions out of three questions. All the three questions shall be of remembering type in nature to test the student’s conceptual clarity. 10 marks

Total Marks= Q:1 + Q:2 + Q:3 = 10 + 10 + 10 = 30 Marks

To measure: Analytical ability of applying suitable cloud technology in enterprise

Course Outcome:
CO1: Aware about the trends of computing and able to choosing suitable architecture as per the need of organization.
CO2: Evaluate the deployment of web services from cloud architecture.
CO3: Discuss the usage of virtual technology in cloud computing.

Programme Outcome:
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

Assessment Code: A2
Weightage of Content:
<table>
<thead>
<tr>
<th>Unit</th>
<th>(%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>35</td>
</tr>
<tr>
<td>5</td>
<td>40</td>
</tr>
</tbody>
</table>

Assessment Type: Unit Test - 2
Tentative Date: 22-Mar-2019

Kind of Question Format:
To measure: Application and applying security in Cloud domain

Course Outcome:

| CO1 | Aware about the trends of computing and able to choosing suitable architecture as per the need of organization. |
| CO2 | Evaluate the deployment of web services from cloud architecture. |
| CO3 | Discuss the usage of virtual technology in cloud computing. |
| CO4 | Compare and contrast the economies benefits delivered by various cloud models based on application, requirements, economic constrains and business requirements. |
| CO5 | Critically analyze security concepts while developing and deploying cloud based applications. |

Programme Outcome:

| 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 |

Assessment Code: A3

Assessment Type: Internal Examination

Tentative Date: 19-Apr-2019

<table>
<thead>
<tr>
<th>Section-1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q-1 (A) Short answer questions. Each question consists of 1 mark. 70% questions shall be of understanding type nature where as 30% shall be of analysis type to test knowledge and analytical skill with one word or a line of answer.</td>
</tr>
<tr>
<td>Q-1 (B) Answer to the questions in brief. Each question consists of 2 marks. Students have to attempt two questions out of three. 70% questions shall be of understanding type nature where as 30% shall be of analysis type to test knowledge and analytical skill with two or five lines of answer.</td>
</tr>
<tr>
<td>Q-2 (A) Answer to the questions in detail based on scenario given in the questions. Each question consists of 5 marks. Students have to attempt any one question out of two questions. Both the questions shall be of analysis type to test the student’s analytical skill and logical skill. (B) Answer to the questions in detail based on scenario given in the questions. Each question consists of 5 marks. Students have to attempt any one question out of two questions. Both the questions shall be of analysis type to test the student’s analytical skill and logical skill.</td>
</tr>
<tr>
<td>Q-3 Answer to the questions in detail. Each question consists of 5 marks. Students have to attempt any one questions out of two questions. All the questions shall be of remembering type in nature to test the student's conceptual clarity.</td>
</tr>
</tbody>
</table>

Section-2
| Q- 4 (A) | Short answer questions. Each question consists of 1 mark. 70% questions shall be of understanding type nature where as 30% shall be of analysis type to test knowledge and analytical skill with one word or a line of answer. | 04 marks |
| Q- 4 (B) | Answer to the questions in brief. Each question consists of 2 marks. Students have to attempt two questions out of three. 70% questions shall be of understanding type nature where as 30% shall be of analysis type to test knowledge and analytical skill with two or five lines of answer. | 04 marks |
| Q- 5 (A) | Answer to the questions in detail based on scenario given in the questions. Each question consists of 5 marks. Students have to attempt any one question out of two questions. Both the questions shall be of analysis type to test the student's analytical skill and logical skill. | 10 marks |
| Q- 5 (B) | Answer to the questions in detail based on scenario given in the questions. Each question consists of 5 marks. Students have to attempt any one question out of two questions. Both the questions shall be of analysis type to test the student's analytical skill and logical skill. | 10 marks |
| Q- 6 | Answer to the questions in detail. Each question consists of 5 marks. Students have to attempt any one questions out of two questions. All the questions shall be of remembering type in nature to test the student's conceptual clarity. | 5 marks |

To measure: Comprehension, Application, Analysis ability of Cloud technology

Course Outcome:
- CO1: Aware about the trends of computing and able to choosing suitable architecture as per the need of organization.
- CO2: Evaluate the deployment of web services from cloud architecture.
- CO3: Discuss the usage of virtual technology in cloud computing.
- CO4: Compare and contrast the economies benefits delivered by various cloud models based on application, requirements, economic constrains and business requirements.
- CO5: Critically analyze security concepts while developing and deploying cloud based applications.
- CO6: Mapping of functionalities of cloud applications and applying the best practices while developing cloud based applications.

Programme Outcome:
- 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.

Assessment Code: A4
**Weightage of Content:** All Units

**Assessment Type:** Presentation

**Tentative Date:** During semester

**Kind of Question Format:** Presentation and Viva

To measure: Analysis skill to find and study existence of cloud computing in different domain in today's environment and to provide an opportunity to the student to do investigation and research work in the cloud computing.
**Format:**

1. A group shall comprise of minimum three and maximum five members, group shall be decided by students themselves till the 2nd week of the semester. Group will be approved by the course teacher.

2. The teacher shall provide freedom to group to select a topic of their choice which should be any advance and research topic related to the course. The topic shall then be submitted to the course teacher by the end of 3rd week of the semester. Approval of course teacher for the topic is necessary before submission. Three attempts will be given to group for getting approval of topic where each attempt will deduct 1 mark. In case, a group is unable to get approval from course teacher will lose marks and topic shall be given by course teacher. Schedule of presentation will be displayed on notice board and on website in 4th week. Student need to prepare a document containing content of presentation and get verified from course teacher before 10 days of presentation schedule. In case content is not appropriate and not approved by course teacher marks will be deducted from Content covered parameter. Two attempts will be given for approval of content otherwise a group will lose full marks of presentation. A prior approval is necessary in case student is absent due to unavoidable circumstances.

3. Time duration shall be two to three minutes per student for presentation.

4. Mode of presentation has be an innovative (self-created video, poster presentation, model creation or any other).

5. Evaluation shall be done on the following criteria:
   a. Topic selection (5 Marks)
   b. Mode of presentation (5 Marks)
   c. Content covered (10 Marks)
   d. Presentation skill (5 Marks)
   e. Viva (5 Marks)

**Outcome:**

CO1: Aware about the trends of computing and able to choosing suitable architecture as per the need of organization.

CO2: Evaluate the deployment of web services from cloud architecture.

CO3: Discuss the usage of virtual technology in cloud computing.

CO4: Compare and contrast the economies benefits delivered by various cloud models based on application, requirements, economic constrains and business requirements.

CO5: Critically analyze security concepts while developing and deploying cloud based applications.

CO6: Mapping of functionalities of cloud applications and applying the best practices while developing cloud based applications.

**Penalty Criteria:**

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.

- No make-up work shall be accepted for missed or failed tests.

**Academic Honesty:**

Coursework is assumed to be accomplished individually (otherwise stated). Any portion of submission taken directly from anywhere (like statements in assignment/report etc.) without modification must be accompanied with the properly formatted reference giving credit to the author and to the source.

**UFM:**

- If two or more submitted solutions of assignment or test/quiz/examination answer papers are too similar for coincidence, a penalty shall be imposed that shall usually be the same for the student who did the original as for the one copying from it.