**BCA (4th Semester)**  
**030010413: CC12 Event Driven Programming**

**Assessment Policy**

**PO (Programme Outcomes)**

PO1: Ability to understand the concepts of key areas in computer science.

PO2: Ability to design and develop system, component or process as well as test and maintain it so as to provide promising solutions to industry and society.

PO3: Effective communication and presentation skill.

PO4: Ability to understand professional and ethical responsibility.

PO5: Recognition of the need for life-long learning.

**CO (Course Outcomes)**

CO1: Describe the event handling mechanism.

CO2: Construct the graphical user interface with the basic and interactive controls.

CO3: Identify the use of handlers in the event driven application.

CO4: Use the distinguished data storage for structured and unstructured data.

CO5: Complete the executable event driven application with data & application security.

**Assessment Parameters:**

<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>CO Mapping</th>
<th>PO Mapping</th>
</tr>
</thead>
<tbody>
<tr>
<td>A1</td>
<td>Quiz</td>
<td>55 Minutes</td>
<td>1</td>
<td>20</td>
<td>04X01=04</td>
<td>CO1</td>
<td>PO1, PO2</td>
</tr>
<tr>
<td>A2</td>
<td>Unit Test</td>
<td>1.5 Hours</td>
<td>2</td>
<td>30</td>
<td>07X02=14</td>
<td>CO2, CO3, CO4</td>
<td>PO2</td>
</tr>
<tr>
<td>A3</td>
<td>Internal</td>
<td>3 Hours</td>
<td>1</td>
<td>60</td>
<td>14X01=14</td>
<td>CO1, CO2, CO3, CO4, CO5</td>
<td>PO1, PO2</td>
</tr>
<tr>
<td>A4</td>
<td>Teacher's Choice</td>
<td>During Semester</td>
<td>2</td>
<td>20</td>
<td>04X02=08</td>
<td>CO2, CO3</td>
<td>PO3, PO5</td>
</tr>
</tbody>
</table>

**Practical Internal Evaluation**

<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>CO Mapping</th>
<th>PO Mapping</th>
</tr>
</thead>
<tbody>
<tr>
<td>A5</td>
<td>Unit Test</td>
<td>2 Hours</td>
<td>2</td>
<td>20</td>
<td>06X02=12</td>
<td>CO2, CO3, CO4, CO5</td>
<td>PO1, PO2</td>
</tr>
<tr>
<td>A6</td>
<td>Section Test</td>
<td>4 Hours</td>
<td>1</td>
<td>30</td>
<td>18X01=18</td>
<td>CO1, CO2, CO3, CO4, CO5</td>
<td>PO1, PO2</td>
</tr>
<tr>
<td>A7</td>
<td>Semester End Examination</td>
<td>4 Hours</td>
<td>1</td>
<td>30</td>
<td>30X01=30</td>
<td>CO1, CO2, CO3, CO4, CO5</td>
<td>PO1, PO2, PO4</td>
</tr>
<tr>
<td>A8</td>
<td>Journal/Viva</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>15X01=15</td>
<td>CO1, CO2, CO3, CO4, CO5</td>
<td></td>
</tr>
</tbody>
</table>
### Assessment Code: A1(TH)
#### Objective:
To identify that students can:
- Correlate the concept of event with the context.
- Understand the callback process and delegation model

#### Question category weightage:
- **Understanding** (50%) = 10 Marks
- **Analysis** (30%) = 6 Marks
- **Remembering** (20%) = 4 Marks

#### Paper Format:
Multiple Choice Questions Answers. (Attempt 30 out of 30)

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### Assessment Code: A2(TH)
#### Objective:
To identify that students can:
- Choose suitable control for the context.
- Design graphical user interface using basic controls.
- Describe the event handling with respect to given context.

#### Paper Format:
- Q-1: Understanding(33%), Q-2: Analysis(33%), Q-3: Remembering(33%)
- Q-1 (A) Do as directed. (Attempt 4) [01 x 04 = 04]
  (B) Answer in brief. (Attempt any 3 out of 4) [02 x 03 = 06]
- Q-2 Do as directed. (A) Analysis based question. [05 x 01 = 05]
  OR
  (A) Analysis based question. [05 x 01 = 05]
  (B) Analysis based question. [05 x 01 = 05]
  OR
  (B) Analysis based question. [05 x 01 = 05]
- Q-3 Answer the following in detail. (Attempt any 2 out of 3) [05 x 02 = 10]

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### Assessment Code: A5(PR)
#### Objective:
No student is allowed for the practical test without journal.
There must be 4 practical signed to appear for the test.
<table>
<thead>
<tr>
<th>Assessment Code: A2(TH)</th>
<th>Tentative Date: 3rd March, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment Type: Unit Test-2 (Formative)</td>
<td>Unit Covered: 1(10%), 2(10%), 3(10%), 4(40%), 5(30%)</td>
</tr>
<tr>
<td><strong>Objective:</strong></td>
<td>To identify that students can:</td>
</tr>
<tr>
<td></td>
<td>✓ Design graphical user interface using interactive controls.</td>
</tr>
<tr>
<td></td>
<td>✓ Identify the event category and its processing mechanism.</td>
</tr>
<tr>
<td><strong>Paper Format:</strong></td>
<td>Q-1: Understanding(33%), Q-2: Analysis(33%), Q-3: Remembering(33%)</td>
</tr>
<tr>
<td></td>
<td>Q-1 (A) Do as directed. (Attempt 4) [01 x 04 = 04]</td>
</tr>
<tr>
<td></td>
<td>(B) Answer in brief. (Attempt any 3 out of 4) [02 x 03 = 06]</td>
</tr>
<tr>
<td></td>
<td>Q-2 Do as directed. (A) Analysis based question. [05 x 01 = 05]</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>(A) Analysis based question. [05 x 01 = 05]</td>
</tr>
<tr>
<td></td>
<td>(B) Analysis based question. [05 x 01 = 05]</td>
</tr>
<tr>
<td></td>
<td>OR</td>
</tr>
<tr>
<td></td>
<td>(B) Analysis based question. [05 x 01 = 05]</td>
</tr>
<tr>
<td></td>
<td>Q-3 Answer the following in detail. ( Attempt any 2 out of 3 ) [05 x 02 = 10]</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assessment Code: A5(PR)</th>
<th>Tentative Date: 3rd March, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment Type: Unit Test-2</td>
<td>Unit Covered: 4(50%), 5(50%)</td>
</tr>
<tr>
<td><strong>Paper Format:</strong></td>
<td>Q-1 Proposed solution based question. [01 x 05 = 05]</td>
</tr>
<tr>
<td></td>
<td>Q-2 Practical based question. [01 X 15 = 15]</td>
</tr>
<tr>
<td><strong>Category:</strong></td>
<td>Analysis</td>
</tr>
<tr>
<td><strong>Instruction:</strong></td>
<td>✓ No student is allowed for the practical test without journal.</td>
</tr>
<tr>
<td></td>
<td>✓ There must be 8 practical signed to appear for the test.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assessment Code: A3(TH)</th>
<th>Tentative Date: 1st April, 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment Type: Internal (Formative)</td>
<td>Unit Covered: Complete syllabus</td>
</tr>
<tr>
<td><strong>Objective:</strong></td>
<td>Measure the course objective attainment.</td>
</tr>
<tr>
<td><strong>Paper Format:</strong></td>
<td>As per external question paper format.</td>
</tr>
</tbody>
</table>
Assessment Code: A6(PR)  
Assessment Type: Section Test  
Tentative Date: 19th March, 2020  
Unit Covered: 1-5

Objective: To identify that students can:
- Construct event driven application by applying event handling concepts.
- Use the data storage mechanism.
- Express their learning/understanding through viva.

Paper Format:
- Q-1 Proposed solution based question. [05 x 01 = 05]
- Q-2 Practical based question. [20 x 01 = 20]

Category: Q-3 Viva [05 x 01 = 05]

Analysis

Instruction:
- No student is allowed for the practical test without journal.
- There must be 11 practical signed to appear for the test.

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Assessment Code: A7(PR)  
Assessment Type: End Semester Examination  
Tentative Date: 10th April, 2020  
Unit Covered: 1-6

Objective: To identify that students can:
- Construct event driven application by applying event handling concepts.
- Identify the suitable data storage mechanism and use it for the event driven application.
- Express their learning/understanding through viva.

Paper Format:
- Q-1 Proposed solution based question. [05 x 01 = 05]
- Q-2 Practical based question. [20 x 01 = 20]
- Q-3 Viva [05 x 01 = 05]

Instruction:
- No student is allowed for the practical test without journal.
- Journal must be certified to appear for the test.

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Assessment Code: A4(TH)  
Assessment Type: Teacher’s Choice  
Tentative Date: During the semester  
Unit Covered: Complete syllabus

**Comparative Study Report**

Objective:
- Enhance reading skill.
- Enhance technical writing skill
- Enhance communication skill
Promote class participation

Instruction:

- Group of 3 members shall be framed, each team shall be given topic to study which would be common in both the platforms PyQt and C#, and prepare comparative study report.
- There shall be two occurrences of evaluation as following:

<table>
<thead>
<tr>
<th>Evaluation Parameter</th>
<th>CIE Weightage</th>
<th>Marks</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report Submission</td>
<td>4</td>
<td>20</td>
<td>20/01/2019</td>
</tr>
<tr>
<td>Poster Presentation</td>
<td>4</td>
<td>20</td>
<td>25/02/2019</td>
</tr>
</tbody>
</table>

Report Submission

- The objective for this parameter is to map the semester objective such as to enhance reading skill and technical writing skill.
- Team shall study the topic given by class teacher, team must gather information in PyQt and C# regarding available class, methods, properties and event handlers for the given topic.
- The topic shall be given by course teacher during 4th week of the semester.
- While study student must jot down differences, syntax, snippet and remarks. The snippet can be small code fragment to explain one small sub-topic out of given topic.
- The prepared report must follow the given format as well as it must have qualitative content. Quality can be measured by good book and web references which provides in depth knowledge regarding the concept.
- Usual points such as document must be free of grammatical mistakes, proper indentation, justification and correct statement formation.
- Each team shall prepare a comparative study report as per the following report format and guidelines.
- The formatting shall be:
  - Title: Cambria, 12, Bold
  - Sub-title: Cambria, 11, italic
  - Content: Cambria, 10
  - Code: Courier New, 10, in a box format
  - Caption for images are required
- Sample front page shall be provided by course teacher.

Report Format [10 pages minimum]

- Front page with title
- Table of Content/index and figures if applicable
- About <Topic> [Including its properties and events]
- Comparative study
- References [As per IEEE format]

Evaluation Parameter of report submission

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formatting &amp; Content Quality</td>
<td>10</td>
</tr>
<tr>
<td>Viva</td>
<td>10</td>
</tr>
</tbody>
</table>

Bonus Policy

- A student shall have **bonus 2** marks on 2-days earlier submission. The
Bonus+marks shall not exceed total marks for CIE parameter.

- Bonus marks shall only avail if the *report quality found excellent*.

### Penalty Policy
- A team shall be penalize for 2 marks on late submission by 3 days, latter submission then 3 days shall not be accepted.

### Poster Presentation
- The objective for poster presentation is to map the semester objective such as to enhance communication skill and class participation.
- This parameter will also map the PO5 which is regarding *life long learning*

- Once document is approved by the course teacher, team shall prepare poster which must include quality content in brief in the form of poster.
- The poster size must be 40X40 inches, the formatting of poster will be based on team’s choice.
- The poster shall be exhibited for other students also in dome area.
- The total duration for the exhibition shall be of two hours.
- Team shall represent their study in front of panel of faculty member.
- Team shall answer the questions raised by other students also.
- Team shall note the suggestions given by panel as well as other students.
- At the end of presentation each team shall submit their poster to the course teacher.
- Following are the evaluation parameter for the poster presentation:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Marks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concept clarity</td>
<td>07</td>
</tr>
<tr>
<td>Poster Content Coverage</td>
<td>06</td>
</tr>
<tr>
<td>Communication Skill</td>
<td>07</td>
</tr>
</tbody>
</table>

### UFM policy
- If two or more submitted practical assignments 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.

- 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 Program Coordinator; (iii) report to the Director.