# MODULE HANDBOOK

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|---|---|
| **Module Name:** | Visual Programming |
| **Module Level:** | Sarjana (S-1) / Bachelor |
| **Abbreviation, if applicable:** | 8420203152 |
| **Sub-heading, if applicable:** | - |
| **Course included in the module, if applicable:** | - |
| **Semester/term:** | 4/ Third year |
| **Module Coordinator(s):** | Dra. Atik Wintarti, M.Kom. |
| **Lecturer(s):** | Dr. Elly Matul Imah, M.Kom.<br>Dra. Atik Wintarti, M.Kom.<br>Shofa Fiangga, M. Pd. |
| **Language:** | Indonesia |
| **Classification within the curriculum:** | ~~Compulsory course~~/ elective studies |
| **Teaching format/class hours per week during the semester** | Teaching format: lectures, tutorial assignment, and individual study. 3 x 170 minutes = 510 minutes = 8.5 hours lectures |
| **Workload:** | 15 weeks per semester consisting of:<br>➢ 2.5 hours lectures (3 x 50 minutes) per week,<br>➢ 3 hours tutorial assignments (3 x 60 minutes) per week,<br>➢ 3 hours individual study (3 x 60 minutes) per week,<br>Total workload : 14x3x170 minutes = 7,140 minutes = 4.76 ECTS* |
| **Credit Point:** | 3 |
| **Requirements:** | Elementary Linear Algebra |
| **Learning Goals:** | CLO-1 Understand the concept of visual programming and its supporting technology<br>CLO-2 Design mathematics learning media using ICT<br>CLO-3 Make application programs for learning mathematics<br>CLO-4 Complete assignments and evaluate them |
| **Content:** | The basic concepts of a visual programming language in making relevant applications for learning mathematics, application of data structures and algorithms that include linked-lists, stacks, queues, trees, searching and sorting to solve mathematical problems |

<table>
<tr><td></td><td>through active IT-assisted learning which ends in application development project tasks for learning mathematics.</td></tr>
<tr><td>Study/exam achievements</td><td>
<ul>
<li>Students are considered competent and pass if the final score calculated from the score of midterm exam, assignments, participation, and final exam is at least 55 or C.</li>
<li>Final score is calculated as follows:</li>
<li>20% midterm exam + 30% assignments + 20% participation + 30% final exam</li>
<li>Final index is defined as follow:</li>
</ul>
<table>
<tr><th>Index</th><th>Converted Score</th><th>Score Range</th></tr>
<tr><td>A</td><td>4.00</td><td>$85 \leq A \leq 100$</td></tr>
<tr><td>A-</td><td>3.75</td><td>$80 \leq A- < 85$</td></tr>
<tr><td>B+</td><td>3.50</td><td>$75 \leq B+ < 80$</td></tr>
<tr><td>B</td><td>3.00</td><td>$70 \leq B < 75$</td></tr>
<tr><td>B-</td><td>2.75</td><td>$65 \leq B- < 70$</td></tr>
<tr><td>C+</td><td>2.50</td><td>$60 \leq C+ < 65$</td></tr>
<tr><td>C</td><td>2.00</td><td>$55 \leq C < 60$</td></tr>
<tr><td>D</td><td>1.00</td><td>$40 \leq D < 55$</td></tr>
<tr><td>E</td><td>0.00</td><td>$0 \leq E < 40$</td></tr>
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</td></tr>
<tr><td>Forms of Media</td><td>Slides and LCD projectors, whiteboard</td></tr>
<tr><td>Literature</td><td>[1] Grundgeiger, D. 2002. Programming Visual Basic.NET. O'Reilly, penerbit, kota.<br>[2] Haggard, G.,Hutchison, W., and Shibata, C.2013.Introduction: Visual Basic 6.0. penerbit, kota</td></tr>
<tr><td>Note</td><td>*Total hours per 1 credit in 1 semester={(1 credit x 170 minutes x 14 weeks)/60 minutes}=39,67 hours.<br>Each ECTS equals with 25 hours therefore 1 credit in 1 semester equals 1,59 ECTS.</td></tr>
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