SUBJECT : SPORTS SCIENCE AND TECHNOLOGY
LEVEL : FORM 5-6

PROJECT TYPE : Design Project

TOPIC : Guided Design Project

Competencies : Problem Solving, Planning, Psychomotor, Investigation and Presentation

DIMENSIONS/ CRITERIA TO BE ASSESSED

Ability to identify a problem, investigate and design a solution to the problem from an area within course.

OBJECTIVES TO BE ASSESSED

Learners should be able to:
- Identify a sports science and technology problem
- define the problem
- do background research
- specify the requirements
- brainstorm, evaluate and choose a solution
- develop a model or prototype
- test the solution
- communicate results
- Make a write up.

The Research Project should be sent to ZIMSEC by the 31ST October of the final year.
PROJECT: FORM 5 & 6

PROJECT LAYOUT

(i) The problem and its setting
   • Background to the problem
   • Requirements specifications
   • Evaluation and choice of solution

(ii) Model/prototype
   • Design specifications
   • Testing
   • Modifications

(iii) Communicate results
   • Definition of the problem
   • Background to the problem
   • Solution

(iv) Conclusion and recommendations
   • conclusions
   • recommendations

(v) Reference
<table>
<thead>
<tr>
<th>CONTENT</th>
<th>DESCRIPTIONS</th>
<th>MARK</th>
<th>Mark awarded</th>
<th>COMMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layout</td>
<td>- Is the project well organised and smartly presented – including binding for typed projects, prescribed font – and language issues</td>
<td>10</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- general presentation</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Problem and solution description</td>
<td>- Is the problem well defined</td>
<td>40</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Is the background literature exact in describing the problem under study</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Are the requirements clearly formulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Are the solutions clearly stated and functional</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Are clear diagrams clearly drawn and labelled to communicate the solutions.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Model / prototype</td>
<td>- Is the solution meeting the requirements appropriate to the problem</td>
<td>30</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Are the design tools properly used</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Ergonomics considered</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Are the dimensions to scale</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
| Communication of results | - Learners to give a precise overview of the design project  
- The research solution to be supported by presented data  
- Recommendations to be applicable and appropriate  
- Previous ideas to connect with this chapter | 15 |
| References | - Are the citations used referenced?  
- Are the citations in alphabetic order?  
- Do the appendices record all documents used? | 5 |

Supervisor ___________________ Moderator _________________ Signature ___________