# YEAR 5 BACHELOR OF ARCHITECTURE COURSE OUTLINE

## SEMESTER 1

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Hours</th>
<th>Examination</th>
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<tbody>
<tr>
<td>BAR 501</td>
<td>Architectural Practice &amp; Management</td>
<td>45</td>
<td>1 x 2hr Paper</td>
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<tr>
<td>BAR 503</td>
<td>Advanced Building Technology</td>
<td>45</td>
<td>1 x 2hr Paper</td>
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<tr>
<td>BAR 505</td>
<td>Sustainable Design</td>
<td>45</td>
<td>1 x 2hr Paper</td>
</tr>
<tr>
<td>BAR 513</td>
<td>Advanced Architectural Design 1</td>
<td>240</td>
<td>By Coursework</td>
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## COURSE DESCRIPTION

### BAR 501 ARCHITECTURAL PRACTICE & MANAGEMENT  
45 Hrs

### BAR 503 ADVANCED BUILDING TECHNOLOGY  
45 Hrs
Investigation of complex, larger scale buildings with particular emphases on the evaluation and selection of appropriate structural systems and materials. Factors affecting buildability. Building code requirements. There will be a requirement for self-directed research into, and representation of, technical systems and details of selected case study buildings and students’ studio projects.

### BAR 505 SUSTAINABLE DESIGN  
45 Hrs
An exploration the philosophical, social and political context of the sustainable future. The role of the designer in the construction of a sustainable future. A review of the evolution of environmentally-sustainable settlements and buildings and the technologies used. Examples from the past and the present are analysed in terms of flows of resources and energy. Current technologies and their effectiveness available to the designer of such environments.

### BAR 513 ADVANCED ARCHITECTURAL DESIGN 1  
240 Hrs
In the first semester the students will address a common project brief. The project will be of a sufficient complexity to accommodate various themes in the coursework.

### BAR 502 URBAN DESIGN  
45 Hrs
Urbanism and issues in Urban design. Urban structure and patterns of urban development with special reference to East African Region. Design principles elements and components in urban design, their relevance in urban fabric and function, spatial relationships, issues of growth, image and meaning structure. Systems for circulation, Transportation, Communication, Services etc. Issues of Redevelopment, renewal, conservation and conversion of land uses and Buildings. Floor space index and density controls, By-laws and planning regulations.
BAR 504 ADVANCED ARCHITECTURAL COMPUTING  
45 Hrs
A studio-based series of structured tutorials exploring newer and more complex operations in architectural representation, animation and documentation.

BAR 506 CONTEMPORARY ARCHITECTURAL THEORY  
45 Hrs
An examination of selected architectural themes in architectural writing and criticism relative to contemporary theoretical positions.

BAR 514 ADVANCED ARCHITECTURAL DESIGN 2  
240 Hrs
Projects must be of sufficient complexity and depth dealing with a wide range of issues. Teamwork and group work will be encouraged as will the harnessing of human and other resources to the overall production of the design.