

Semester II (1Compulsory course & 3 Electives)		
TEC 7201	Business Administration I (Compulsory course)	3
TEC 7200	Research Methods	3
Elective Courses (To select three)		
MEC 7201	Energy Planning and Management	4
MEC 7202	Renewable Energy Technology	3
MEC 7203	Welding Engineering	3
MEC 7204	Production Engineering	4
MEC 7205	Engineering Fracture and Fatigue	4
Recess Term		
Common Compulsory Courses		
TEC 7301	Business Administration II	3
Elective Courses (To select two)		
MEC 7302	Air Conditioning and Refrigeration	4

MEC 7303	Heat Exchanger Design	4
MEC 7304	Power Plants	4
MEC 7305	Combustion Engineering	4
MEC 7306	Extractive Metallurgy	4
MEC 7307	Plastic Deformation and Metal Forming	4
MEC 7308	Plastics Engineering	4
MEC 7309	Fuels, Furnaces and Refractories	4
MEC 7310	Production Planning and Control	3
MEC 7311	Materials Handling and Management	3
MEC 7312	Advanced Manufacturing Processes	4
MEC 7313	Machine Tool Design	3
Year II: Semester I and II		
MEC 8101	Research and Dissertation	8

MASTER OF ARCHITECTURE (DAY/EVENING) (MARC)

Objectives

- To equip architects with advanced skills to address practical problems in the field.
- To strengthen capacity at various levels of the professional institutions in government, local authorities and the private sector
- To impart advanced skills necessary to meet the challenges of competition at the regional and international level.

Target Group

The target group of the programme is the many architects, engineers, urban planners and surveyors in the field who wish to improve on their professional qualifications in a field which has become highly competitive and demanding.

Regulations for the Master of Architecture Degree

General Regulations

The common Regulations and Guidelines for Master's Degree of Makerere University shall be applicable. These include:

- a) Guidelines for application, registration, research proposal, supervision, viva voce;

- b) Regulations on submission of progress reports and final Dissertation;
- c) Appointments of Supervisors and Examiners.

Type of Programme

The Master of Architecture Degree shall be conducted by course-work and Dissertation on an evening programme basis. Masters level study differs from first degree studies in the depth of analysis/understanding required, and also the level of original/innovative thought involved. Enhancement of understanding and innovative thought may result from either increasing the depth or by increasing the breadth by widening the basis of reference. In many cases a combination of these approaches is appropriate.

Masters level study pre-supposes that prior knowledge and skills have been established by appropriate foundation, thus leading to a level demanding more advanced and intensive study than a first degree, and including a compulsory element of advanced independent work.

Programme Credit Units

- i) The Programme shall be conducted on Credit Unit (CU) basis.

- ii) One Credit Unit shall be equivalent to one contact hour (CH) per week per semester, or a series of 15 contact hours.
- iii) One Contact Hour is equivalent to one hour of lectures (LH) or two hours of practical work (PH).

Programme Structure

Duration

The minimum duration shall be two years.

The Programme Structure shall be as follows:

Year I Semester I

(1 core applied design studio and 4 core Theory Courses)

- Advanced Applied Design Studio
- Theory of Design
- Research Methodology
- Human Settlements
- Introduction to the Use of CAD.

Semester II

4 Elective Theory Courses and one core Applied Design Studio course selected in a block from any of the areas of an applied design studio drawn from the selected areas of specialization.

In the first year, theory courses shall be examined by written examination papers and coursework, while Applied Design Studio shall be examined by course-work.

Year II Semester I & II

Dissertation by either Research or Design Project related to the selected area of specialization, according to the curriculum.

Detailed Curriculum

Year I: Semester I (Compulsory Core Courses)		CU
ARC 7101	Advanced Applied Design Studio	5
ARC 7102	Theory of Design	2
ARC 7103	Research Methodology	2
ARC 7104	Human Settlements	2
ARC 7105	Applications CAD	2

Semester II		
<i>Common Specialised Courses (select five courses, including the Applied studio, from one block of courses from any of the electives listed below)</i>		
a) Architecture Design		
ARC 7201	Advanced Studio in Architectural design	5
ARC 7202	Building Types	2
ARC 7203	Community Design	2
ARC 7204	History of Conservation	2
ARC 7205	History of Architecture & Regional Design	2
ARC 7206	Real Estate Studies	2
b) Low-cost Housing Design		
ARC 7207	Advanced Studio in Low-cost Housing Design	5
ARC 7208	Building Types and Needs	2
ARC 7209	Development projects	2
ARC 7210	Appropriate technology and Materials	2
ARC 7211	Construction Costs and Affordability	2
ARC 7212	History and Theory of Human Settlements	2
c) Earth Architecture		
ARC 7213	Advanced Design Studio in Earth Architecture Design	5
ARC 7214	Biophysical & Environmental Aspects	2
ARC 7215	Building Materials Technology and Management	2
ARC 7216	Regional Environmental Design History	2
ARC 7217	The Human Factor in Earth Architecture Design	2
d) Landscape Design		
ARC 7218	Advanced Design Studio in Landscape	5
ARC 7219	Site Planning	2
ARC 7220	Landscape Plants and Horticulture	2
ARC 7221	Structural Design and Landscape Engineering	2
ARC 7222	History and Theory of Landscape Architecture	2
ARC 7223	Land Economics	2
e) Urban Design		
ARC 7224 E	Advanced Studio in Urban Design	5
ARC 7225E	Urban Planning	2

ARC 7226E	Theory of Urban Design	2
ARC 7227E	History of Urban Design	2
ARC 7228E	Urban Sociology & Community Development	2
ARC 7229E	Urban Economics	2
f) Building Technology		
ARC 7230E	Advanced Design in Building Technology	5
ARC 7231E	Theory of Structure	2
ARC 7232E	Building Technologies & Materials	2
ARC 7233E	Building Systems	2
ARC 7234E	History of Building Technology	2
ARC 7235E	Building Economics	2
Year II Semester I & II		
ARC 8101	Dissertation by Design Project or Research.	

Research Dissertation

Students are required to demonstrate their ability to independently undertake research and analysis, as well as develop a hypothesis and thoroughly defend their dissertations.

- Dissertation shall conform to the Standing Guidelines and Regulations of the University for Higher Degrees.
- Candidate shall not be allowed to formally start on Research Work unless he/she has passed at least seven courses.
- A Candidate shall submit a Research Proposal to the Faculty of Higher Degrees Committee not later than one month after the beginning of the second year of study.
- The Candidate shall conduct Research during the second year of study.
- The Candidate shall hand in four copies of the Dissertation by the end of the Second Year of Study.

Passing of the Research Dissertation

To pass Dissertation, the Candidate shall satisfy the Examiners in written Dissertation and Viva Voce.

Revised Research Dissertation

A Candidate, who fails to satisfy Examiners, shall re-submit a revised dissertation in accordance with the guidance of the Viva Voce

Committee.

A Candidate shall re-submit a revised Dissertation within six months after notification.

Project Design Dissertation

Students are required to demonstrate their ability to independently develop an advanced project brief as well as demonstrate originality in their project formulation and design.

- The Design Project shall conform to the Standing Guidelines and Regulations of the University on higher degrees.
- A Candidate shall not be allowed to formally start on the Design Work unless he/she passed at least seven courses.
- A Candidate shall submit a Design Proposal to the Faculty Higher Degree Committee not later than one month after the beginning of the second year of study.
- The Candidate shall conduct and submit the Design Project by the end of the second year of study.
- The Candidate shall hand in four copies of the dissertation by the end of the second year of study.

Passing the Design Project Dissertation

To pass the Design Project, the Candidate shall satisfy the Examining Panel based on the design requirements as will be determined by the Regulations of the University on higher degrees.

Revised Design Project

A Candidate who fails to satisfy the Examining Panel, may be asked to revise a Design Project if, in the Panel's opinion it deems it necessary.

A Candidate shall re-submit a revised Design Project within six months after notification.

Graduation Requirements

The Degree of Master of Architecture shall be awarded to a Candidate who obtains a minimum of 26 credit units and has passed the dissertation.