## **Courses for Semester #3**

Ident. No. (Code)	Course Name	Status	Note
MT1	Master Thesis (Part 1)	Done	Proposal by Rolf, revised by Harald and Martin.
MT2	Master Thesis (Part 2)	Done	Proposal by Tarek, revised by Nabil.

		esis (Part 1),	Final					
	ification	Workload	Credits	Semeste	r Frequency of of	ency of offer Duration		
numt MT1	ber	900 h	30 (25+5) ECTS	3	Winter semeste	emester 1 Semester		
			СН					
1	Courses	Courses Contact time		Self-study	Planed g	aned group size		
	MT1: Ma	sterthesis		0 h	900 h	1 Sti	1 Student	
	KO: Kollo	quium						
2	Learning	outcomes) / cor	npetencies					
	examination. The main examiner of the Master thesis should be a professor of the university handing out the topic. The Master's thesis consists of the independent processing of a relevant engineering-based task from the field of mechatronics and the written representation of applied scientific methods and results. It should demonstrate that the candidate is able to work within a given period to such a task independently and that he or she can present the results clearly and understandably. The candidate may make suggestions for the topic of the master thesis. The processing time for the thesis after the award of the subject is limited to a minimum of 3 months and a maximum of 5 months.							
	KO: Directly adjacent to the master's thesis is to be the Master colloquium. In the colloquium the candidate defenses the thesis in form of a presentation, about 15-30 min for the examiners of the Master thesis. This presentation may also be public university wide. Followed by a maximum of 30 non-public minute oral examination on the content of the thesis and on the technical or scientific field, in which the master thesis should be.							
3	Contents							
	Project topics are assigned respectively to the research foci of the hosting university institutes or will be chosen by the students from the industrial environment.					nstitutes or		
4	Teaching Method							
	Single or small groups							
5	Requirer	nents						
	The student has successfully completed a BSc or BEng course in Egypt or Jordan; he/she student studies in the accredited JIM2L Mechatronics Masters Course in Egypt or Jordan; he/she has successfully completed the first two theory semesters of the JIM2L Master Course correspond to a credit equivalent of 60 ECTS (equivalence must be given) at his/her home university							
	,	Examination						
6	Examina	tion						
6		<b>tion</b> esis, presentation	and oral exa	am				

	Passed Module examinations
8	Significance of the mark for the final score
9	Representative module and full-time teachers
10	Other Information

Mas	ster The	esis II								
	ification	Workload Credits Semester Frequency of offer Duratic		Duration						
numb	ber	900 h	30 (25		4		Spring semeste	ng semester One Seme		
MT4			ECTS							
			CH	1						
1	Courses	ses Contact time Self-study Planed gro		ined group size						
	Thesis Re	eport			0 h		900 h		One Student	
	Thesis Defense									
2	Course D	Description								
	This is a research-oriented work that builds on Thesis I: The candidate is required to extend his Thesis I work (that was carried at a partner institution) and continue at his original institution. The type of research extension will be setup by the department and agreed upon at the end of Thesis I. This extension might include further analysis of results, modified algorithms with new simulation runs, and/or laboratory/industry application of developed work. The candidate will present his Thesis work to an examination committee selected by the department. The presentation should explain the research work and analyze its results. The candidate will then go through an oral examination regarding his work.						e type of research is extension might on runs, and/or y the department.			
3	Learning	Outcomes								
	On comple	eting the course, stu	udents w	ill be a	able to have to	o follo	owing skills:			
	□ Know	ledge and understa	nding							
	A1. Ur	nderstand detailed a	and adva	inced	research cond	epts	i			
	A2. Review and analyse related literature									
	<ul> <li>Intellectual skills</li> </ul>									
	B1. Im	prove the students'	research	h and	innovative ab	ility				
	B2. Derive, design, and apply advanced concepts									
	<ul> <li>Professional and practical skills</li> </ul>									
	C1. Write technical reports and research papers C2. Communicate effectively by presenting and defending ones work									
	<ul> <li>General and transferrable skills</li> </ul>									
	D1. Tr	ansfer technology b	etween i	institu	tions					
	D2. Bu	uild teamwork for rea	search w	vork						
4	Contents	;								
		pics will be based will be deal with a					ne institution and lo pts	ocal	industrial needs.	
5	Teaching	g Method								
	Single or	small groups								
6	Requiren	nents								

	Passing Thesis I
7	Examination
	Master's Thesis Report
	Presentation and Oral Exam
8	Requirements for awarding credit points
	Passing the module examinations
	Submitting research work for publication
9	Significance of the mark for the final score
10	Representative module and full-time teachers
11	Other Information