Dear Dr. Redwan:

Since I will not be able to attend the meeting due to being committed to another, I thought to put my comments in writing so you may wish to print and discuss in the meeting.

First of all I am puzzled with this program structure that you sent to us, which is new to me for two reasons:

1. **I am a member of the sub-committee on this issue, and we never had a meeting since our last, in which we discussed and agreed on the general structure (please see complete table in the last page)**
2. **I wonder who made such changes, and why should we run in circles and redo what we already have spent time doing and discussing in our last meeting?**

Please see some unexplainable changes in your latest version in the following pages.

Please note that a curriculum is not something that one may venture into without a complete plan for the entire curriculum with clear objectives and adopting certain standards. How could one put a structure for only two years, and claim to observe the integrity of the whole program?

***All that we need is to keep common courses as same as possible for all engineering, while making minimum adjustments to fit special needs of some engineering deportments*.**

Please note that the proposed curriculum (last table), which we have discussed last meeting was structured based on ABET standards, wherein integrity of various curricular components were adhered to.

Thank you
Yehia Khulief

Proposed Program Structure for Thuraya College
1 & 2 years

Year 1, Semester 1

Course Title ……..	**Credit Points**
Math 1	4
English Reading/Comprehension 1	3
Physics 1	4
Physical Education 1	1
Humanities & Social Studies 1	2
Applied Chemistry	4
TOTAL	**18**

CHEM	1xx	Chemistry	3	3	4
ENGL	1xx	English Composition I	3	0	3
MATH	1xx	Calculus I	4	0	4
PHYS	1xx	Physics I	3	3	4
IAS	1xx	Objective Writing Terminology	2	0	2
PE	1xx	Psychical Education I	1	0	1
			16	6	18

This semester is OK

Year 1, Semester 2

Course Title ……..	**Credit Points**
Math 2	4
English Reading/Comprehension 2	3
Introduction to Programming	4
Physics 2	4
Physical Education 2	1
TOTAL	**16**

ENGL	1xx	English Composition II	3	0	3
MATH	102	Calculus II	4	0	4
PHYS	1xx	Physics II	3	3	4
ICS	1xx	Computer Programming	2	3	3
ENG	1xx	Introduction to Engineering	2	0	2
PE	1xx	Psychical Education II	1	0	1
			15	6	17

Here; the following g changes were made

- **Introduction to programming is 4-hours instead of 3**
- **Introduction to Engineering was removed**

Year 2, Semester 1

Course Title ……..	**Credit Points**
Math 3	4
Computer Applications in Engineering	3
Technical English	3
Social & Cultural Studies	2
Specialty Course 1	4
Specialty Course 2	3
TOTAL	**19**

ENGL	2xx	Technical Report Writing	3	0	3
AME	2xx	Thermodynamics I	3	0	3
MATH	2xx	Calculus III	3	0	3
CE	2xx	Vector mechanics: Statics	3	0	3
AME	2xx	ME Drawing & Graphics	2	3	3
CE	2xx	Eng Mechanics of Materials	3	0	3
			17	6	18

Here; the following g changes were made

- **Math-3 is 4-hours instead of 3**
- **A second course in programming is added**
- **A social studies course is also added here**

Year 2, Semester 2

Course Title ……..	**Credit Points**
Specialty Course 3	4
Specialty Course 4	3
Specialty Course 5	3
Math 4	4
Economic Analysis of Projects	3
TOTAL	**17**

AME	2xx	Vector Mechanics: Dynamics	3	0	3
AME	2xx	Thermodynamics II	3	0	3
MATH	2xx	Elem. Diff. Equations	3	0	3
AME	2xx	Materials Science for ME	3	3	4
EE	2xx	Electric Circuits	2	3	3
IAS	2xx	Technical Arabic Writing	2	0	2
			16	6	18

Here; the following g changes were made

- **Math-4 is 4-hours instead of 3**
- **The economics course was also moved to this semester (please see complete Table below.**
- **A social studies course is also added here**
- **The Engineering interdisciplinary course was removed**

This is the structure which we have discussed both in the sub-committee and in the mother committee

PROPOSED APPLIED MECHANICAL ENGINERING CURRICULUM

Course		Title	LT	LB	CR	Course		Title	LT	LB	CR
FIRST YEAR (Freshman)											
CHEM	1xx	Chemistry	3	3	4	ENGL	1xx	English Composition II	3	0	3
ENGL	1xx	English Composition I	3	0	3	MATH	102	Calculus II	4	0	4
MATH	1xx	Calculus I	4	0	4	PHYS	1xx	Physics II	3	3	4
PHYS	1xx	Physics I	3	3	4	ICS	1xx	Computer Programming	2	3	3
IAS	1xx	Objective Writing	2	0	2	ENG	1xx	Introduction to Engineering	2	0	2
PE	1xx	Psychical Education I	1	0	1	PE	1xx	Psychical Education II	1	0	1
			16	6	18				15	6	17
SECOND YEAR (Sophomore)											
ENGL	2xx	Technical Report Writing	3	0	3	AME	2xx	Vector Mechanics: Dynamics	3	0	3
AME	2xx	Thermodynamics I	3	0	3	AME	2xx	Thermodynamics II	3	0	3
MATH	2xx	Calculus III	3	0	3	MATH	2xx	Elem. Diff. Equations	3	0	3
CE	2xx	Vector mechanics: Statics	3	0	3	AME	2xx	Materials Science for ME	3	3	4
AME	2xx	ME Drawing & Graphics	2	3	3	EE	2xx	Electric Circuits	2	3	3
CE	2xx	Eng Mechanics of Materials	3	0	3	IAS	2xx	Technical Arabic Writing	2	0	2
			17	6	18				16	6	18
THIRD YEAR (Junior)											
EE	306	Electromechanical Machines	2	3	3	STAT	3xx	Prob. & Stat. for Engineers	2	3	3
AME	3xx	Manufacturing Processes	3	3	4	AME	3xx	Mechanics of Machines	3	0	3
MATH	3xx	Methods of Applied Math.	3	0	3	AME	3xx	Automotive Component Design	3	0	3
AME	3xx	Design of Machine elements	3	0	3	ECON	3xx	Engineering Economics	3	0	3
AME	3xx	Fluid Mechanics	3	3	4	AME	3xx	Heat Transfer	3	3	4
IAS	3xx	Human Rights in Islam				IAS	3xx	Ethics in Islam	2	0	2
			14	9	17				16	6	18
Summer Session			AME	4xx		Coop Training-I			0	0	0
FOURTH YEAR (Senior)											
AME	4xx	Coop Training-II	0	0	6	AME	4xx	Senior Design Project	3	0	3
						AME	4xx	Internal Combustion Engines	2	3	3
						AME	4xx	Vehicle Dynamics & Control	2	3	3
						AME	4xx	Automotive Noise & Vib.	2	3	3
						AME	4xx	AME Elective	3	0	3
						XE	4xx	Technical Elective	3	0	3
			0	0	6				17	9	18
Total Credits Required: 132											

Color Key: ■ *Common Courses throughout all engineering disciplines*
■ *Interdisciplinary engineering courses*
■ *ME Courses*

Basic science & Math=32Hrs, *Humanities & Social=17Hrs*