

PROGRAMME : BACHELOR OF ENGINEERING (CIVIL)
TYPE : FULL TIME
BATCH : 202 ONLY (NEW UNICORE + NEW CURRICULUM STRUCTURE)
SUMMARY

TYPE OF COURSES	CREDIT HOURS	ELEMENT
A. University Required Course (UNICORE)	20	UNGS (1201,1301,2290,2380), Language (LEED, LMBD, LQAD, TQTD) Co-Curricular (CCUB)
B. Kulliyah Required Courses (KRC)	14	MATHS (4 courses x 3 Crs each) Technology Entrepreneurship (2 Crs)
C. Engineering Core Courses	90	Includes EIT, IDP, FYP, GENE
D. Engineering Elective Courses	9	
E. Free Elective/ Extra Courses	6	
TOTAL	139	

A. UNIVERSITY REQUIRED COURSES (UNICORE)

No	Course Code	Course Title	Credit Hours	Grading Remarks*	Pre-Requisite	Requirement
1.	CCUB 1061	Usrah 1	0.5	P/F (CT)		Year 1
2.	CCUB 1062	Usrah 2	0.5	P/F (CT)	CCUB 1061	Year 1
3.	CCUB 2163	Usrah in Action 1 (Community profiling)	1	P/F	CCUB 1062	Year 3
4.	CCUB 3164	Usrah in Action 2	1	P/F		Year 3
5.	LEED 1301	English for Academic Writing	3	Normal Grading		Year 1
6.	*LMBD 1131	Bahasa Melayu 1 (Non Malay speakers)	1	Normal Grading		Year 1
7.	*LMBD 1132 / LM 2026	Bahasa Melayu 2 (Non Malay Speakers)	1	Normal Grading	LMBD 1132	Year 2
8.	TQTD 1002	Tilawah Al- Quran 1	0.5	P/F		Year 1
9.	TQTD 2002	Tilawah Al- Quran 2	0.5	P/F	TQTD 2001	Year 2
10.	UNGS 1201	Sustainable Development : Issues, Policies and Practices	2	Normal Grading		Year 1, 1 st Sem
11.	UNGS 1301	Basic Philosophy in Islamic Worldview	3	Normal Grading		Year 1, 1 st Sem
12.	UNGS 2290	Knowledge and Civilization in Islam	2	Normal Grading	UNGS 1301	
13.	UNGS 2380	Ethic and Fiqh of Contemporary issues	3	Normal Grading	UNGS 2290	
14.	CCLM 2051	Leadership	0.5	Normal Grading		

15.	CCFM 2061	Family Management	0.5	Normal Grading		
16.	CCSS 1010/2010/ 3010	Skill 1	0.5	P/F		
17.	CCSS 1010/2010/ 3010	Skill 2	0.5	P/F		
18.	LQAD 1003	Arabic for Ibadah 1	0.5	Normal Grading		Year 1
19.	LQAD 2003	Arabic for Ibadah 2	0.5	Normal Grading	LQAD 1003	Year 2
TOTAL : 20						

* Credit Hours Not counted

B. KULLIYAH REQUIRED COURSE (KRC)

No	Course Code	Course Title	Credit Hours	Grading Remarks*	Pre-Requisite	Requirement
1.	MATH 1310	Engineering Mathematics 1	3	Normal Grading		
2.	MATH 1321	Engineering Mathematics 2	3	Normal Grading	MATH 1310	
3.	MATH 2311	Differential Equation	3	Normal Grading	MATH 1321	
4.	MATH 2330	Computational Method and Statistic	3	Normal Grading	MATH 2311	
5.	MFGA 4210	Technology Entrepreneurship	2	Normal Grading	CVLE 4300	
TOTAL : 14						

C.1 ENGINEERING CORE COURSES (LEVEL 1)

LEVEL 1						
No	Course Code	Course Title	Cr Hrs	Pre-requisite	Co-requisite	Grading Remarks
1.	CVLE 1281	Engineering Survey	2			Normal Grading
2.	CVLE 1182	Engineering Survey Practical	1			Normal Grading
3.	CVLE 1232	Civil Engineering Materials	2			Normal Grading
4.	CVLE 1291	Civil Engineering Drawing	2			Normal Grading
5.	CVLE 1261	Geology and Soil Mechanics	2			Normal Grading
6.	CVLE 1231	Building Services	2			Normal Grading
7.	CVLE 1311	Applied Mechanics	3			Normal Grading
8.	EECE 1317	Engineering Programming	3			Normal Grading
TOTAL : 17						

C.2 ENGINEERING CORE COURSES (LEVEL 2)

LEVEL 2						
No	Course Code	Course Title	Cr Hrs	Pre-requisite	Co-requisite	Grading Remarks
1.	CVLE 2333	Construction Technology	3			Normal Grading
2.	CVLE 2192	Civil Engineering Lab 1 (fluid,concrete,light structure)	1	CVLE 1232	CVLE 2341 CVLE 2312	Normal Grading
3.	CVLE 2341	Fluid Mechanics	3	CVLE 1311		Normal Grading
4.	CVLE 2312	Strength of Material	3	CVLE 1311		Normal Grading
5.	CVLE 2193	Civil Engineering Lab 2 (soil,concrete,hydraulics)	1		CVLE 2342	Normal Grading
6.	CVLE 2342	Hydraulics	3	CVLE 2341		Normal Grading
7.	CVLE 2371	Highway and Traffic Engineering	3			Normal Grading
8.	CVLE 2362	Geotechnical Engineering	3	CVLE 1261		Normal Grading
9.	CVLE 2313	Theory of Structures	3	CVLE 2312		Normal Grading
TOTAL : 23						

C.3 ENGINEERING CORE COURSES (LEVEL 3)

LEVEL 3						
No	Course Code	Course Title	Cr Hrs	Pre-requisite	Co-requisite	Grading Remarks
1.	CVLE 3194	Civil Engineering Lab 3 (geotech,structure,hydrology)	1		CVLE 3343	Normal Grading
2.	CVLE 3314	Structural Analysis	3	CVLE 2313		Normal Grading
3.	CVLE 3321	Reinforced Concrete Design 1	3	CVLE 2312		Normal Grading
4.	CVLE 3323	Steel and Timber Structural Design	3	CVLE 2312		Normal Grading
5.	CVLE 3343	Water Resources and Hydrology	3	CVLE 2341		Normal Grading
6.	FREE XXXX	Free Elective 1	3			Normal Grading
7.	CVLE 3195	Civil Engineering Lab 4 (highway,transport,environment)	1		CVLE 3351	Normal Grading
8.	CVLE 3322	Reinforced Concrete Design 2	3	CVLE 3314		Normal Grading
9.	CVLE 3351	Environmental Engineering	3	CVLE 2342 CVLE 3343	CVLE 3195	Normal Grading
10.	CVLE 3283	Infrastructure Planning and Design (Pre-IDP)	2	CVLE 3343	CCUB 2163	Normal Grading
11.	MFGA 3309	Engineering Economics and Management	3			
12.	FREE XXXX	Free Elective 2	3			Normal Grading
13.	CVLE 3500	Engineering Industrial Training	5			P/F
TOTAL : 36						

C.4 ENGINEERING CORE COURSES (LEVEL 4)

LEVEL 4						
No	Course Code	Course Title	Cr Hrs	Pre-requisite	Co-requisite	Grading Remarks
1.	CVLE 4200	Final Year Project 1	2	CVLE 3194		Normal Grading
2.	CVLE 4363	Foundation Engineering	3	CVLE 2362		Normal Grading
3.	CVLE 4334	Construction Project Management	3	CVLE 2333		Normal Grading
4.	CVLE 43XX	Technical Elective 1	3			Normal Grading
5.	CVLE 4300	Integrated Design Project (IDP)	3	CVLE 3283	CCUB 3164	Normal Grading
6.	CVLE 4272	Transportation Engineering	2			Normal Grading
7.	CVLE 4400	Final Year Project 2	4	CVLE 4200		Normal Grading
8.	CVLE 43XX	Technical Elective 2	3			Normal Grading
9.	CVLE 43XX	Technical Elective 3	3			Normal Grading
10.	GENE 4301	Engineering Ethics, Safety and Environment	3	UNGS 2380		Normal Grading
TOTAL : 29						

D. ENGINEERING ELECTIVES COURSES (CHOOSE 3 COURSES OUT OF 21)

No	Course Code	Course Title	Cr Hrs	Pre-requisite	Grading Remarks
1.	CVLE 4316	Advanced Structural Analysis	3	CVLE 3314	Normal Grading
2.	CVLE 4324	Analysis and Design of Tall Buildings	3	CVLE 3322, CVLE 3314	Normal Grading
3.	CVLE 4325	Prestressed Concrete Design	3	CVLE 3321	Normal Grading
4.	CVLE 4315	Finite Element for Structural Analysis	3	CVLE 3314	Normal Grading
5.	CVLE 4336	Sustainable Construction	3		Normal Grading
6.	CVLE 4335	Industrialized Building System	3		Normal Grading
7.	CVLE 4337	Advanced Concrete Technology	3	CVLE 1232	Normal Grading
8.	CVLE 4344	Integrated Water Resources Management	3	CVLE 3343	Normal Grading
9.	CVLE 4345	Urban Storm Water Management	3	CVLE 3343	Normal Grading
10.	CVLE 4346	Advanced Hydraulic	3	CVLE 2342	Normal Grading
11.	CVLE 4347	Coastal Engineering	3	CVLE 2342	Normal Grading
12.	CVLE 4348	River Engineering	3	CVLE 2342	Normal Grading
13.	CVLE 4352	Advanced Water and Wastewater Treatment	3	CVLE 3351	Normal Grading
14.	CVLE 4354	Air Pollution Control	3	CVLE 3351	Normal Grading
15.	CVLE 4353	Solid Waste Engineering	3	CVLE 3351	Normal Grading
16.	CVLE 4355	Green Technology and Resource Conservation	3		Normal Grading
17.	CVLE 4364	Advanced Geotechnical Engineering	3	CVLE 2362	Normal Grading
18.	CVLE 4365	Ground Improvement Engineering	3	CVLE 2362	Normal Grading
19.	CVLE 4366	Site Investigation	3	CVLE 2362	Normal Grading
20.	CVLE 4374	Traffic Management	3	CVLE 2371	Normal Grading
21.	CVLE 4373	Pavement Engineering	3	CVLE 2371	Normal Grading

F. FREE ELECTIVES/ EXTRA COURSES

No	Course Code	Course Title	Cr Hrs	Pre-requisite	Grading Remarks
1.	CVLE 4336	Sustainable Construction	3		Normal Grading
2.	CVLE 4335	Industrialized Building System	3		Normal Grading
3.	CVLE 4355	Green Technology and Resource Conservation	3		Normal Grading
TOTAL : 9					

Undergraduate Grading Remarks
Grading Remarks (*)

Type/Grade	Explanation	Hours Credited	Hours Earned
Normal	Normal Grading(A,B,C,D, etc)	Yes	Yes
PA/FA	Pass / Fail Course or for practical training	Yes	Yes
AU	Course Audited	No	No
PR	Passed Resit	Yes	Yes
FR	Failed Resit	Yes	No
EX	Exemption	Yes	Yes
Y	Barred from Final Exam	Yes	No
I	Incomplete	No	No