

College	College of Engineering	Department	Civil and Construction Engineering
Program	Civil Engineering	Degree Level	Bachelor of Engineering
Total Credit Hours	137 CH	Applicable for batch of	2018 and above

Year One		Year Two		Year Three		Year Four		Year Five
Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring	Fall
ISLM101 Islamic Civilization	CHEM101 Chemistry	CVEN310 Surveying Pre-R: MATH101	CVEN232 Engineering Geology Pre-R: CHEM101	CVEN301 Design of Concrete Structure I Pre-R: CVEN340	MATH305 Numerical Methods Pre-R: MATH102	CVEN443 Foundation Engineering Pre-R: CVEN260	CVEN491 Capstone Design Project I Pre-R: 90CH	CVEN592 Capstone Design Project II Pre-R: CVEN491
ENGL101 English Communication Skills 1	ENGL102 English Communication Skills 2 Pre-R: ENGL101	CVEN332 Civil Engineering Materials Pre-R: ENGR110	CVEN333 Mechanics of Materials Pre-R: CVEN332	CNMN405 Building Information Modelling Pre-R: ENGR201	CVEN260 Geotechnical Engineering Pre-R: CVEN232	MATH406 Calculus III Pre-R: MATH102	CVEN361 Environmental Engineering Pre-R: CHEM101	CVEN563 Traffic Engineering Pre-R: MATH204
ENGR111 Computer Applications	MATH102 Calculus 2 Pre-R: MATH101	ENGR201 Engineering Drawing	CVEN362 Transportation Engineering Pre-R: CVEN310	CVEN324 Integrating Group Project Pre-R: ENGR202	CVEN350 Thermofluids Engineering Pre-R: PHYS102	CVEN451 Hydraulics Engineering Pre-R: CVEN332	CVEN545 Analysis of Structure II Pre-R: CVEN340	CVEN552 Engineering Hydrology Pre-R: CVEN451
MATH101 Calculus I	PHYS102 Physics 2 Pre-R: PHYS101	ENGR202 Technical Writing and Presentation Pre-R: ENGL102	CVEN340 Analysis of Structure I Pre-R: ENGR220	CVEN471 Engineering Project Management Pre-R: ENGR201	MATH204 Probability and Statistics Pre-R: MATH102	ENGR404 Engineering Economics Pre-R: MATH204	Civil Engineering Elective	Civil Engineering Elective
PHYS101 Physics I	ENGR110 Engineering Laboratories	MATH215 Linear Algebra Pre-R: MATH101	ENGR321 Dynamics Pre-R: ENGR220	MNGT 313 Entrepreneurship Pre-R: 60CH	MATH203 Differential Equations Pre-R: MATH102	CVEN444 Design of Concrete Structures II Pre-R: CVEN301	CVEN441 Design of Steel Structures Pre-R: CVEN340	Civil Engineering Elective
		ENGR220 Statics Pre-R: MATH101					ENGR322 Summer Internship	
15 CH	15 CH	18 CH	14 CH	15 CH	15 CH	15 CH	15 CH	15 CH

List of Elective Courses:

A student must register in **3** courses with total of **9** credits hours following the program study plan

Course Code	Course Title	Pre-Requisite	Credits hours
CVEN536	Pre-stressed Concrete	CVEN444	3
COEN586	Sustainable Construction	CVEN361	3
CVEN544	Design of Temporary Structures	CVEN340	3
CVEN537	Ground Improvement	CVEN443	3
CVEN538	Earth Retaining Structures	CVEN443	3
CVEN546	Design and Rehabilitation of Pavements	CVEN260	3
CVEN554	Hydrogeology and Groundwater Contamination	CVEN451	3
ENEN431	Water and Wastewater Treatment	CVEN451	3
CVEN553	Water Resources Engineering	CVEN451	3
ENEN531	Advanced Wastewater Treatment	CVEN451	3
COEN282	Construction Equipment		3
COEN280	Construction Methodology		3
COEN585	GIS Applications in Civil Engineering		3
COEN587	Cost Estimating		3
CVEN521	Dynamics of Structures	ENGR321 CVEN340	3
ENEN401	Renewable Energy		3
CVEN520	Rock Engineering	CVEN443	3
CVEN564	Coastal Engineering	CVEN451	3
OJTR406	Industrial Internship I	90 Credit hours	0
OJTR407	Industrial Internship II	OJTR406	0